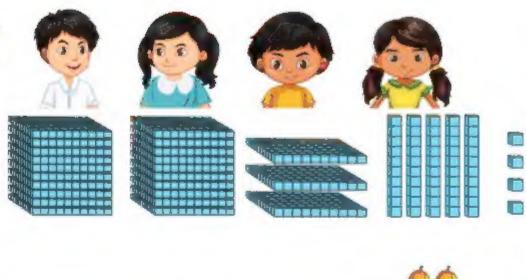
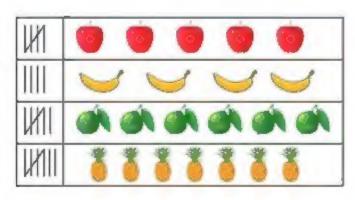
Elementary Mathematics

Class Three







Prescribed by the National Curriculum and Textbook Board as a textbook for class three from the academic year 2024

Elementary Mathematics

Class Three



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Preface

Primary level constructs the foundation of education. A set of well-defined targets and properly planned primary education provide strengths to the entire education system. Keeping this in mind, the primary level has been given supreme importance in the Education Policy 2010. Increasing the span and inclusiveness of the primary level, as the developed countries of the world, have been emphasised. Special attention has been given to ensure that no child's access to education is hindered by social and economic status, religion, ethnicity, or gender identity.

The National Curriculum and Textbook Board (NCTB) has implemented an integrated curriculum to update primary education. While this curriculum trails the pedagogy and the curriculum of developed countries, it also adopts traditional teaching-learning values of Bangladesh at the same time. This has enabled the education to be more life-oriented and productive. In the context of globalisation, the mental health of the children has also been specially considered in this curriculum.

Textbook is the most important component of curriculum implementation. NCTB has always borne that in mind while designing textbooks for all levels and classes including primary level. Curriculum goals and objectives have been prioritised in the writing and editing of each book. A keen eye has been kept on the diverse curiosity and capacity of the child's mind. Special importance has been given in designing the curriculum and the textbooks to make teaching-learning interactive and enjoyable. It is hoped that each book will help in the balanced psycho-physical development of children through educational activities. It will support in acquiring the required skills, adaptability, patriotism and moral values at the same time.

Elementary mathematics is a compulsory subject. Explanation, examples and pictures are used to present the content in an easy and simple way for the children. The "Let us do activities have been incorporated along with examples to create interest among learners and make learning easier. Moreover, the contents of the textbook have been rearranged following the order of easy to hard. There is enough scope for practice in this textbook.

Special thanks to the specialists and teachers who worked intensively in writing, editing and revising the textbook. Thanks to those also who have made the textbook attractive to children through its design and illustration. This textbook has been revised to address the need in the changed context of 2024. Due to time constraints, some errors may still exist. Any constructive advice and guidance from the audience will be considered with due importance.

At the end, I wish every success of the learners for whom the book has been produced.

October 2024

Professor Dr. A K M Reazul Hassan

Chairman

National Curriculum & Textbook Board, Bangladesh



 Character: A dialogue between two students named Rafi and Tuli and comment by a parrot is shown in the textbook. The mathematical idea of the students would be clear through their discussion and opinion.



- 2) The steps have been indicated by using some symbols in the lesson.
 - **Key question:** Let us solve the problem together.
 - Task: Let's solve the problem after discussing with the friends and teacher.
 - Exercise: Solve the problem by logical thinking. Discuss with the friends and take assistance from the teacher if required.
 - Do it yourself: Let's do it ourselves.

Table of contents

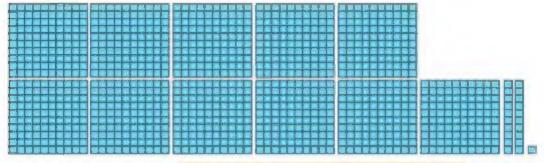
Ch	apter Topic	Page
1	Numbers	1
2	Addition	21
3	Subtraction	31
4	Relation between addition and subtraction	37
5.	Multiplication	42
6	Division	63
7	Relation between multiplication and division	78
8	Problems related to addition, subtraction, multiplication and division	84
9	Fractions	91
10	Bangladeshi currency	107
11	Measurement	118
12	Geometry	133
13	Data collection and arrangement	149

Numbers

Count, Read and Write



How many blocks are there?



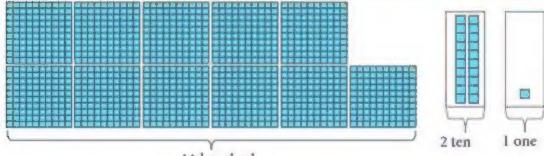


How do we count?

In grade 2, we made groups of 10 and 100 with blocks to count up to 1000.

I think we can easily count the blocks in the same way. But how to write it in number?





11 hundred

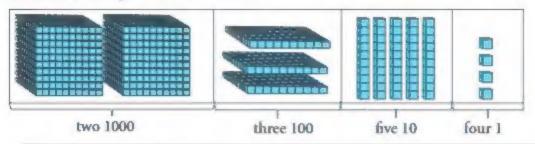
100 100 100	100 100 100			
100	100	100	10 10	1
h	undred	š	tens	ones
	11		2	1



We have learned in grade 2 that 10 groups of 100 makes 1000.

So, this is one thousand one hundred twenty one and we write 1121.

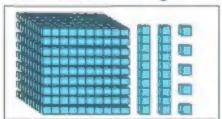
1 How many blocks are there?

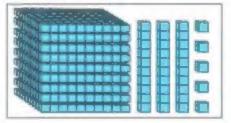


100 100 100	10 10 10 10	1 1 1
	100 100 100	100 100 100 100 10

The number is two thousands three hundreds fifty four and we write 2354.

Which of the following boxes has 925 blocks?





2. Count and write in numbers

thousands	hundreds	tens	ones
1000 1000 1000 1000 1000 1000 1000 1000	100 100 100 100	10 10 10	

The number is

3. Let us read and write in words

(1) 1238 (2) 2815 (3) 3111 (4) 4335 (5) 5153

4. Let us write in digits

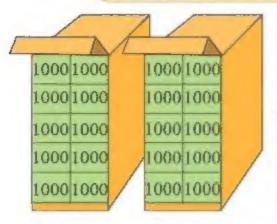
(1) One thousand one hundred thirty five (2) Three thousand nine hundred seventy nine

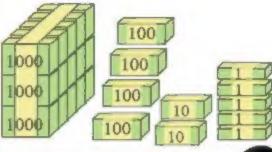
(3) Seven thousand eight hundred sixty nine (4) Nine thousand one hundred one



The tickets shown in the following pictures will be sold for a cricket match.

- (1) How many packets are there in the box?
- (2) How many tickets are there in total?







How do we count so many tickets? I think, we can count by groups of 1, 10, 100, 1000.



1000	1000
1000	1000
1000	1000
1000	1000
1000	1000

= 10000

There are 10 packets of 1000 in each of the big boxes in the above picture. That means the number of tickets is ten thousand and it is written as 10000. There are 2 such boxes in the picture. In these two boxes there are twenty thousand tickets altogether.

There are 3 thousand and 425 tickets more.

Ayuts	thousands	hundreds	tens	ones
	1000	100		1
10000	1000	100	10	1
10000	1000	100	10	1

The number is twenty three thousand four hundred twenty five, we write as 23425

One Ayut is 10 thousand

1 How many thousands are there? What is the number?

1000	1000	1000	1000	1000
1000	1000	1000	1000	1000
Let us cour	it how many	П		



1000 are there.

1000				
1000				
1000				
1000				
1000				

The number is

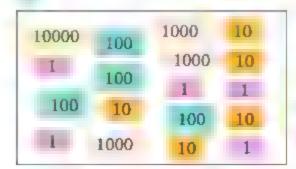
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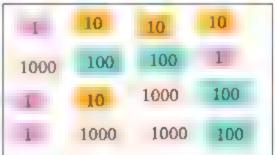
Ayut.



- (1) Five thousand three hundred five
- (2) Twenty two thousand seven hundred nineteen
- (3) Sixty three thousand seven hundred two
- (4) Ninety nine thousand three hundred five
- (5) Fifty one thousand three hundred five
- (6) Five thousand five hundred three

2 Let us count and write in numbers and words





Let us arrange the cards

Let us arrange the cards

Write in digits	Write in digits	
Write in words	 Write in words	

3 Let us count and write in numbers.

Ayuts	thousands	hundreds	tens	ones
10000	1000 1000 1000	F 100 E 100 100 100	10 10	1 1 1

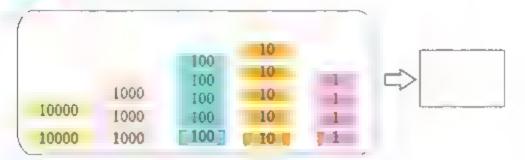
The number is

4 Let us count and write in numbers

Ayuts	thousands	hundreds	tens	ones
	1000			1
10000	1000		10	1
10000	1000		10	1
10000	1000		10	1

The number is Which digit is in the hundreds place?

5) What is the number?



6 Let us write in digits

- (1) Nine thousand nine hundred ninety (2) Nine thou
- (2) Nine thousand ninety nine

(3) Ten thousand

- (4) Ien thousand ten
- (5) Thirteen thousand five hundred thirty two
- (6) Twenty six thousand eight hundred thirty seven

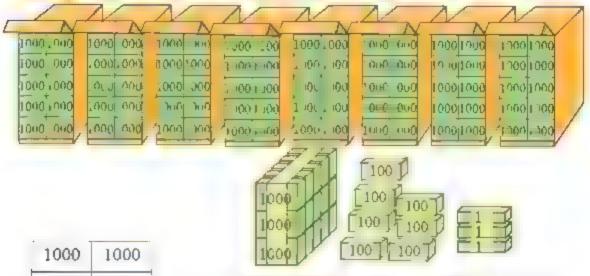
7 Let us read and write in words

- (1) 11238
- (2) 17805
- (3) 19111

- (4) 13359
- (5) 15153
- (6) 27537



The tickets shown in the following pictures will be sold for a football match. How many tickets are there?



1000	1000	
1000	1000	
1000	1000	= 10000
1000	1000	
1000	1000	1

There are 10 packets of 1000 in each of the boxes in the upper row. That means the number of tickets is ten thousand and it is written as 10000. There are 8 such boxes in the picture. These 8 boxes altogether have ninety thousand tickets.



There are more tickets in the picture. How will we count those?

Ayuts	thousands	hundreds	tens	ones
				1
		*		
				3025

write it as 83473 8 3 4 7 3		pla	ce value	
	—— 3 ones ——		3	
	7 tens		70	
	4 hundreds		400	
	3 thousands		3000	housan
	8 Ayuts	80	000	110 dBill
(a) 23517	rts as shown above. (b) 51347 e place value of the digits			
49037		pla	ce value	
	7 ones		7	
	3 tens		30	
	0 hundreds		0	
	9 thousands		9000 <u>49</u> 1	housan
2 Let us fill in the	4 Ayuts blanks			
13457= Ay	uts thousands	hundreds	tens	one
7804 - Ayı	utsthousands	hundreds	tens	one
68005 Ayı	uts thousands	hundreds	tens	one
97842 Ayı	uts thousands	hundreds	tens	one
3 (a) What is the digit in A	he place value of 4 and Ayuts place in the num he digit in thousands	I 3 in the number ber?	er 94230? V	



Population of a union in Bangladesh is 100000 (approximately) How do we read the number?



It's easy We can read it by forming groups of ten, hundred, thousand. Ayut as before



I don't feel this is easy for me. Because there is no room for the place value of 1 at the left

t	AVIDA	thousands	hundreds	(205	DEME:	
	0	0	0	0	0	



Here the new place value will be lakh
1 takh means 10 Ayuts and it is written as 100000

name of prace		Lakhs ,	Ayuts 0	thousands 0	hundreds 0	tens 0	ones 0	
	1 00 000			1 lac or				
				0 ones				0
				0 tens			0	
				0 hundreds				0
				0 thousands				0
				0 Ayuts				0
				1 Lakhs	s		_ 10000	Ю

- 1 The total population of a municipality in Bangladesh consists of 80699 males and 76644 females. Read the two numbers aloud, write in words and find the place value of the digits
- 2. Let us write the numbers at a and b on the number line

		a	b
7000	8000		25
	A + 4		

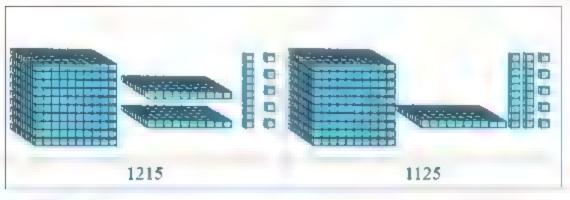
Comparison of numbers



Which number is smaller, 1215 or 1125°

Arrange the two numbers into groups of thousands, hundreds, tens and ones







Let us compare the groups of thousand

The groups of thousand are the same. So we will compare two numbers by groups of hundred. In 1215 there are 2 groups of hundred and in 1125 only 1 group of hundred. That means 1125 is smaller.



1 Let us compare the following two numbers-32740 and 32940



It s very simple. We will compare from larger place value to the smaller place value one by one. First the place of Avuts, then the place of thousands, then the place of hundreds, then the place of tens and finally ones place.

Digits in Avuts and thousands places are the same 3 and 2





(1) 1000

000

Let us compare the digits in the hundreds place
is smaller than 9

So, 32740 is smaller than 32940



When we compare numbers, we use the symbols < and >. 32370 > 32320 The number 32370 is greater than 32320 43680 < 45400. The number 43680 is smaller than 45400.

2 Let us compare the following numbers and write < or > in the blank boxes.

(2) 2100 2200

1.1 2000	(2)2177	
(3) 9469 9496	(4) 13777 136	666
(5) 3896 3289	(6) 45799 468	98
(7) 79980 69988	(8) 99999100	0000
3 Let us write the follow to small using symbols	ving numbers from small	to large and from larg
Numbers	small to large	large to small
1999, 2000	1999 < 2000	2000 >1999
21111, 21109		
42586, 42585		
68990, 68888		
87109, 87099		

1 Let us arrange the numbers from small to large. 37566, 38556, 37556, 39456



Let us compare the digits in Ayuts place All digits are the same

Compare the digits in thousands place 7 < 8 < 9





37566 and 37556 have the same digit in hundreds place.

The digits in tens places of 37566 and 37556 are 6 and 5 5<6





Digit in ones place of both numbers is 6

So the numbers in ascending order are 37556 < 37566 < 38556 < 39456



4 Let us compare the following numbers and arrange them in order from largest to smallest and from smallest to largest

4399, 5409, 5480, 4379	large to small	
	small to large	
24709, 35699, 36735, 47802	large to small	
	small to large	
75611, 75689, 77690, 78609	large to small	
	small to large	
91009, 91809, 90888, 91099	large to small	
	small to large	



The salary structure of an industry worker is fixed in 5 grades Tk. 18257 in first grade. Tk. 15416 in second grade, Tk. 9845 in third grade, Tk. 9347 in 4th grade and Tk. 8875 in fifth grade has been fixed.



How can I read the salary easily in any grade?

We can easily read by using place value



1 Let us read the numbers and find the place value (One is shown)

1 8 2 5 7 7 ones	7
5 tens	50
2 hundreds	200
8 thousands	8000
1 Ayuts	10000

1 Let us arrange the numbers from smallest to largest and largest to smallest using symbols.

18257, 15416, 9845	small to large
8875. 9347	large to small

- 2 Sumona Apa bought a piece of jewellery weighing 1 bhori on the occasion of her brother's wedding last November 30. She needed 97779 take to buy the jewellery Write the value of the jewellery in words and find the place value of the digits used in the number.
- 3 Mangoes were sold for taka 89325 and taka 89775 from two mango orchards. Let us read the two numbers and indicate smaller or larger using symbol.





Ordinal Numbers



Line up the 20 students in your class in order of height from smallest to largest. Each student of the line will state his position in sequential number.

What is your position?

How many students are taller or shorter than you?

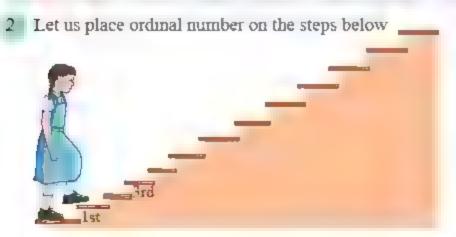
Write the names of the students standing in the order from smallest to largest as the ordinal position.

Position	on	Name
First	1st	
Second	2nd	
Third	3rd	
Fourth	4th	
Fifth	5th	
Sixth	6th	
Seventh	7th	
Eighth	8th	
Ninth	9th	
Tenth	10th	
Eleventh	11th	
Iwelfth	12th	
Thirteenth	13th	
Fourteenth	14th	
Fifteenth	15th	
Sixteenth	16th	
Seventeenth	1 ⁻ th	
Eighteenth	18th	
Nineteenth	19th	
Twentieth	20th	

1 Let us write the ordinal position according to the order of marks obtained in mathematics in your class

Name	Marks obtained in Math in order from highest to lowest	Ordinal position	Name	Marks in Math in order from highest to lowest	Ord.nal position
Ovshi	100	first	Samı	80	
Shimu	98		Jvon	79	
Emon	97		Samia	76	thirteenth
Tapon	95		Kabir	75	
Hiva	92		Raju	69	
Limon	90		Tithi	65	
Rekha	87		Anf	63	
Eti	85		Refet	60	
Nabila	85		Mitu	58	
Dipu	82		Riva	56	

1 Let us paint the 12th ant from left in the following picture



Number Pattern



Let us look at the following patterns carefully Complete the patterns by filling in the blanks.

- 1) 7, 10, 13, , 19, , 25, 78,
- 2) 18, 20, _____, ____, 26, 28
- 3) 19, ---, 15, ---, 11, 9, ---, ---
- 4) 2, 4, ---, ---, 12, ---,
- 5) ----, 29, 28, ----, 26, ----, 24
- 6) , , , 35, 40, 45 —



Each pattern has a specific rule. It has to be found

The rule for pattern 1 is -3 because there is an increase of 3 in each case



- 1 Let us discuss with a classmate how to find out pattern rule for 1
- 2 Let us find the rules of other patterns above and complete the pattern by filling in the blanks.
- 3 Let us make patterns as we desire and discuss it with our classmates
- Let us make 5 different number patterns with rule +3



Let us find the rules of the following patterns and complete the pattern by filling in the blanks.

1) 14, 18, 22, , ,	rule: +4
2) 28, 26, 24, , ,	rule.
3) 65, — , 75, 80, — , —	rule.
4) 36, 30, 24	nile

5) 77, 66, 55, _____, ____ rule.



In the first pattern the next number is greater than the previous number in each case

In each case there is an increase of 4. That is why the pattern rule will be -4.



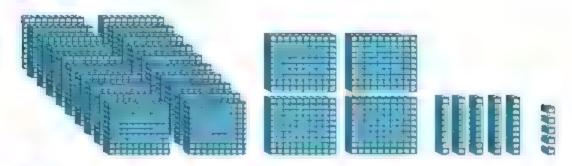
- 1 Let us discuss with classmates how to figure out the rule for each pattern and find them out. Write the rules in the box.
- Let us complete the pattern by filling in the blanks according to the rules
- 2 Let us create patterns for each rule below and discuss with classmates
 - (a) +6 (b) +3 (c) -3 (d) -4
- 3 Let us make number pattern card similar to card as shown below and discuss with classmates.

front 15, 18, 21, 24, 27, 30 back my rule is -3

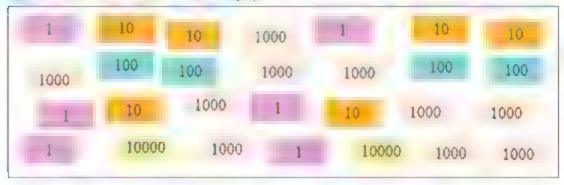


Let us do

Mow many are there?



2 Let us answer the following questions



- (1) How many 10000, 1000, 100, 10 and 1 are there in the box?
- (2) What is the number?
- 3 Let us write in digits.
- (1) Thirty thousand six hundred five
- (2) Seventy seven thousand five hundred sixty three
- (3) Eighty seven thousand seven
- (4) Number formed by eight 10 thousand and four 1 thousand
- (5) Number formed by eight 10 thousand, nine 1 thousand and nine one
- (6) Number formed by Nine 10 thousand, nine 1 thousand, nine 1
 - hundred, mne 10 and mne 1

4 Let us tick (\(\gamma\) the	correct answ	er.	
(1) How many digits w	ull one ayut be	20	
a) three digits	b) four digi	ts c) five digits	d) six digits
(2) Which one of the fo	llowing is the	largest number?	
a) 7829	b) 7892	c) 7982	d) 7928
(3) 0000000000	0000000	0000	
If we count from the le of the colored circle in	-		e the position of
a) fourth	b) fifth	c) fourteenth	d) fifteenth
(4) If the numbers 259 descending order, v		and 2775 are arrang he following order i	
a) 2775 >2757>25	97>2579	b) 2775 >2757>2:	579>2597
c) 2775 >2797>25	97>2579	d) 2757 >2775>2:	597>2579
(5) The rule of the pate	ern 5, 10, 15,	20, 25, 30, 1s-	
a) increase of 5 in 6	each case	b) increase of 10 i	ın each case
c) decrease of 5 in	each case	d) decrease of 10 i	in each case
(6) 7. 11,, 19, 27.	What are the	numbers of blank s	paces in the
pattern?			
a) 12, 20 b) 1	8, 26	c) 15, 23	d) 15, 20
5 Let us fill in the bla	nks.		
(1) is the numb	er of 3 thousa	nds. 5 hundreds, 0 t	tens and 5 ones
(2) The number	15 7 thousand	ds, 1 hundreds, 4 ter	ns and 5 ones
(3) The number	is 2 thousan	ds, 2 tens and 7 one	25.
(4) The number	is 5 thousand	ds and 6 ones	
(5) The number 4375 is	thousa	ınds. hundre	eds. tens
and ones			
(6) The number 5 10009) is Ay	ruts thousa	nds and
hundreds	tens	ones	

6 Let us answer the following questions
(1) What is the number 39 hundreds?
(2) What is the number 12? hundreds?
(3) How many hundreds are there in 2900?
(4) How many hundreds are there in 91000?
(5) In the case of addition, from which place value will the calculation be
started?
7 Let us write the number in the blanks.
(1)
0 100 600
(2)
2300 2500 2700
2500 2600 2700
2500 2600 2700
2.01.00
2500 2000 2700
2.01.00
8 What is the number?
8 What is the number? (1) A number greater than 12999 by 1
8 What is the number? (1) A number greater than 12999 by 1 (2) A number less than 30000 by 1
8 What is the number? (1) A number greater than 12999 by 1 (2) A number less than 30000 by 1 (3) A number 10 less than 10000
8 What is the number? (1) A number greater than 12999 by 1 (2) A number less than 30000 by 1 (3) A number 10 less than 10000 (4) A number 10 more than 49990
8 What is the number? (1) A number greater than 12999 by 1 (2) A number less than 30000 by 1 (3) A number 10 less than 10000 (4) A number 10 more than 49990 (5) A number is 100 more than 79900
8 What is the number? (1) A number greater than 12999 by 1 (2) A number less than 30000 by 1 (3) A number 10 less than 10000 (4) A number 10 more than 49990 (5) A number is 100 more than 79900 9 Let us compare smaller or larger using > or < symbol in the blank space

Addition



A packet of powdered milk costs taka 453 and a case of eggs costs taka 325. How much money is needed to buy a packet of powdered milk and a case of eggs?



453 taka

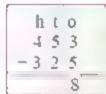


325 taka

This calculation is easy. We need to add. We can add using place value 453-325 =



Adding digits of tens place 5-2 = 7



h t o 4 5 3 - 3 2 5 7 7 8 Adding digits of ones place $3 \div 5 = 8$

Adding digits of hundreds place 4-3=7

1 Let us add



231, 425 and 342 mangoes were plucked respectively from 3 mango trees of Mina's orchard. How many mangoes were plucked from that orchard?

We can solve in the following way.



	2	3	1		.2	3	1		2	3	1		2	3	1
	4	2	5		1)	5		-1	2	5		4	2	5
	3	4	2		3	1	2		3	1	2	1,=>	3	4	2
				1			1			9	1		9	9	1
1-5-2= 4					3.	-2-4	= 9		2	-4÷	3= 9				

1 Let us add

1 Let us add four digit numbers

We can add four digit numbers just like three digit numbers



2] Let us add

(1) 105 + 230 + 33 - (2) 3333 + 4444 + 2222 =

(3) 243 + 410 + 202 (4) 3412 2131 + 4243

3 Let us add

(1) 2312 + 3 + 240 + 23 =

(2) 2340 + 3003 + 2102 + 241 =

(3) 2222 + 1111 + 4321 + 1234 =

(4) 4133 + 2301 + 1425 + 2140 =

(5) 1032

4 1 3 0

3615

÷1211

(6) 2502

3 1 6 3

2211

-1011

(7) 3 0 4 1

4 0 3

4255

+1300

(8) 3 0 5 4

4 3 2

+4310

(9) 4 1 3 1

3 4 2 2

+1044

(10) 4 0 3 0

1415

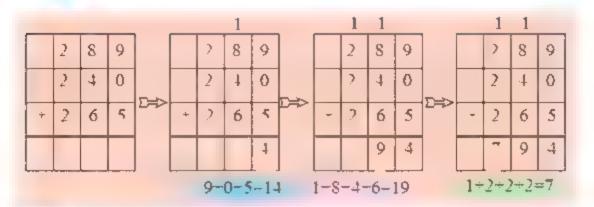
+2351

2 Let us play with friends using number cards.

Let us make number cards of one, ten, hundred and thousand with paper. Pick any four from those cards to create a four-digit number. Add the obtained number with the number which is picked by your friend



In a test cricket match Bangladesh scored 289 runs on the 1st day, 240 runs on the 2nd day and 265 runs on the 3rd day How many runs were scored in 3 days?



Let us add

(1)
$$228 + 356 =$$
 (2) $345 + 474 =$

$$(3) 467 - 245 =$$
 $(4) 683 - 328 =$

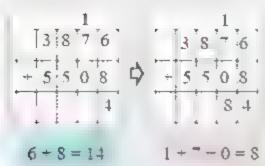
2 Let us find the digit in blank spaces

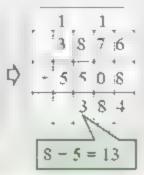
$$(1) \square 10 + 2 \square 5 + 10 \square = 857$$

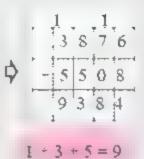


Let us calculate, 3876 + 5508









3 Let us add vertically

4 . Let us add side by side

$$(1) 240 \div 2312$$

$$(2) 2537 \pm 1824$$

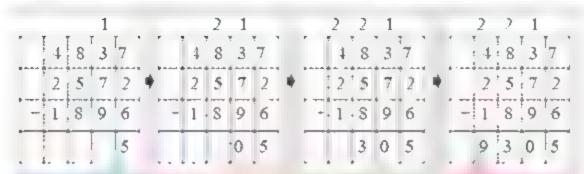
$$(3)3628 + 4591$$

$$(5)687 + 2365$$

$$(6) 7 + 2453$$

5 Let us calculate, 4837 - 2572 1896





$$7 \div 2 \div 6 = 15$$
 $1 \div 3 - 7 - 9 = 20$ $2 - 8 - 5 - 8 = 23$ $2 - 4 - 2 - 1 = 9$

6 Let us add

$$(1) 3412 + 2131 - 4243$$

$$(2) 1521 - 4839 + 2817$$

$$(4)$$
 $718 - 421 + 594$

(6)
$$1485 - 327 - 45$$

7) Let us add

- 8 A zoo had 2754 visitors yesterday and 3656 visitors today How many visitors came to the zoo in two days?
- 9 A wholesale shop has 4416 sacks of rice, 3241 sacks of wheat, and 1537 sacks of sugar. How many sacks are there in that shop?

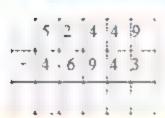


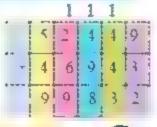
There are 52889 Shal trees and 46943 mahogany trees in a forest. How many trees are there in the forest?

Mathematical sentence 52889 + 46943



Let us explain the calculation to a friend







Although the numbers are large we can do this addition in the same way as the addition of small numbers



Total number of trees is 99832

1 Let us add

- (1) 43121 + 14457
- (2) 32675 1398
- (3)39650 16398

- (4) 28438 + 17653
- (5) 43756 37275
- $(6) 23836 \pm 45618$

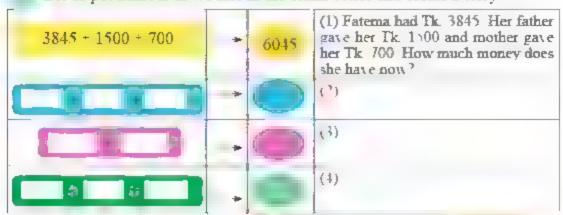
- (7) 57122 + 22679
- (8)99999 + 1

Let us add

- (1) 14275 + 23532 37126 (2) 40305 5246 + 30837
- (3) $12547 \pm 20834 \pm 31276 \pm 18420$ (4) $31983 \pm 643 \pm 4210 \pm 24581$
- 3 A shop sold chocolates worth Tk 34295, biscuits Tk 13720 and Chanachur Tk 14853 in the month of January. How much in total is sold in that shop?
- 4 The adjacent chart shows the sales amount of a chocolate shop. What is the total sale of chocolates from January to April?

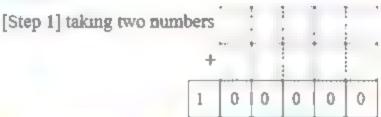
12376 taka January February 15753 taka March 21654 taka April 28765 taka

5 Let us put number as we like in the blank boxes and create a story



Challenge

6 Let us add some five digit numbers as we like which will have the sum total of 100000.





How will I do it? It seems difficult

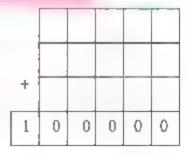
Let us start from ones place With the carrying digit make ten as a sum total in each box.



One is done for you.

	1	1	1		
	3	9	9	8	0
+	6	0	0	2	D
1	0	0	0	0	0

+					
1	0	0	0	0	0



7 Let us play in pairs with number cards

Cards are taken from six cards with four digit numbers by lottery. The three numbers on the cards are written in notebook and added. Whoever has the highest sum will be the winner.

Let as do

l Let us tick	(\(\) the correct ansy	ver.			
(1) 2000+3000	0+4000 - What?				
a) 3600	b) 9000	c) 36000	d) 90000		
2) 20300 - 500 correct digit	090-907 712□7; V in the blank box?	Which one of the fo	llowing will be the		
a) 0	b) 3	c) 7	d) 9		
3) Which one	of the following sun	will be equal to 9	0000?		
a) 45000 +	35000 ÷ 5000	b) 10000 ÷ 600	000 ÷ 2000		
c) 75000 ÷	10000 ÷5000	d) 55000 ± 150	000 ÷2000		
379					
$4) + 9 \cap 5 \setminus W$	nich one of the follo	wing digit will be i	in the blank box?		
a) 8	b) 7	c) 6	d) 5		
_	*		aries for Tk 1200 and ioney did she spend?		
a) Tk. 2150	b) Tk. 3150	c) Tk. 11250	d) Tk. 2115		
6) Sumi has 66 money will	58 taka If her father she have?	gives her Tk. 715	more, how much		
a) Tk.1373	b) Tk. 1383	c) Ik. 3813	d) Γk. 13713		
2 Let us ma	tch the sums by drav	wing lines			
a) 5009 + 3	3021	25840)		
b) 4001 + 6	50 + 400	8030	1		
c) 25094 +	746	1210			
d) 99 + 111		10332			
e) 2222 + 3	333 + 7777	4461			

3	Let us add.			
(1)	1504 ÷ 6282	(2) 7627	1438	(3) 2539 - 672
(4)	99 + 4322	(5) 8537	4265	(6) 43121 + 14457
(7)	16384 + 10623	(8) 63994	- 51	(9) 111 ÷ 99889
4	Let us add			
(1)	2531 + 4012 + 1254		(2)	7621 - 547 - 1014
(3)	5200 - 1920 + 2780		(4)	6171 - 3530 - 2048
(5)	62310 + 15607 + 23491		(6)	44217 ÷ 5382 ÷ 891

5 I usa; Chakma earned a profit of Tk 1680 in the first week Tk 890 in the second week and Tk 1000 in the third week from his grocery shop

How much is his total profit in these three weeks?

(7) 3007 - 172 - 2712 - 1071

Tk. 1680 in the first week
Tk. 890 in the second week
Tk. 1000 in the third week

(8) 2900 - 1600 ÷ 300 ÷ 2400

Total profit	Tk	

- 6 Lima finished reading three books of 261 pages 275 pages and 350 pages in a month. How many pages of story books has she read in the month?
- 7 Rajan runs 800 m. 1000 m and 400 m m the annual sports competition. How many meters does he run m total?
- 8 645 729 and 890 mangoes were plucked respectively from 3 mango trees in Rina's orchard. How many mangoes were plucked from her orchard?
- 9 A nursery has 725 rose 840 china rose and 945 mangold seedlings. How many seedlings are there in this nursery?
- 10 4536 women and 4879 men live in a village. How many people live in that village?
- 11 Lejon sold books for Tk 1250 on the first day Tk 1460 on the second day Tk 1575 on the third day and Tk 2000 on the fourth day In four days how much did be earn selling books?
- 12 A warehouse has \$375 sacks of sugar 11860 sacks of wheat and 12720 sacks of rice. How many sacks are there in the warehouse?
- 13 Make a story with the sentence 355 + 180 889

Subtraction



A nursery had 742 rose seedlings. From there Monir bought 395 seedlings for gardening. Now how many seedlings are left in the nursery?



Let's review how to subtract 3 digit numbers. Start with the ones place first and then subtract the next places gradually

But be careful while handling numbers





As with addition calculation must be started from the ones place. We cannot subtract 5 from 2. So we borrow 10 (10 ones) from the tens place and subtract it 12 - 5 = 7





We took 1 ten from 4 tens (4-1=3) Now we can t subtract 9 tens from 3 tens. So borrow from the hundreds place 1 hundred (=10 tens) to the tens place and subtract 13 - 9 = 4



	6	3	10
	X	4	2
	3	9	5
-	3	4	7
			4

We took 1 hundred from 7 hundred (7 - 1 = 6) Now subtract 3 hundred from 6 hundred 6 3 = 3



Let us subtract

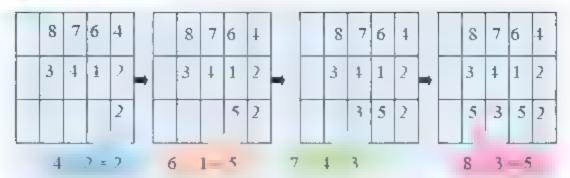
$$(4)769 = 49$$

$$(5)541 = 216$$

$$(5) 541 = 216$$
 $(6) 742 = 209$

$$(7) 252 = 72$$





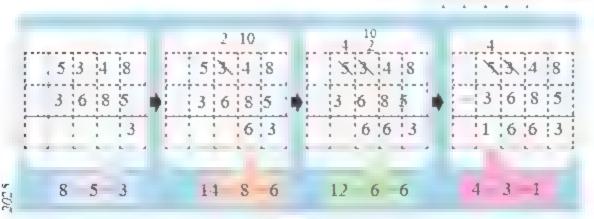
ones place
$$4-2-2$$

tens place $6-1-5$
hundreds place $7-4=3$
thousands place $8-3=5$



The number from which subtracted is the minuend and the number which is subtracted is the subtrahend

2 Reza has taka 5348 and Hiya has taka 3685. How much more money has Reza than Hiya?



Subtraction

$$\begin{array}{c|c}
(1) & & \\
& 2 & 5 & 7 & 4 \\
& & 1 & 5 & 2 & 3
\end{array}$$

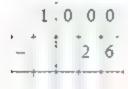
$$(4)7804 = 672$$

$$(5)6389 = 2395$$

$$(6)3836 = 1947$$

Out of 1000 latches of a latche seller, 26 latches got rotten. How many litchis can he sell?

Mathematical sentence 1000 - 26 =

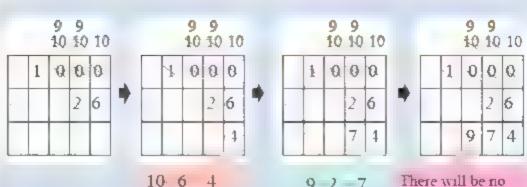


We cannot subtract 6 from 0 in the ones place So I want to borrow 10 But where do I get 10°



We did this type of subtraction in grade 2. So let's bring 1 thousand (10 hundreds) from hundreds place to tens place Next bring I hundred (10 tens) to the tens place and I ten (10 ones) to the ones place. In this way we can do the subtraction





9 - 2 - 7

There will be no subtraction (or 9 0: 9) 3 Let us subtract

- (3) 1000 991
- (4) 1002 777
- (5) 1001 48

- (6) 5000 263
- (7) 6004 8

(8) 7000 2036

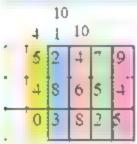
4 Yesterday 48654 people came to a fair and 52479 people came to the fair today What is the difference in the number of people on these two days?







Explain to a friend how to calculate



Although the numbers are large we can do this subtraction in the same way as subtracting small numbers



4 Let us subtract

$$(1)76893 - 42731$$

$$(2) 58485 - 3071$$

$$(3)69143 - 24197$$

$$(4) 13316 - 5981$$

$$(5)$$
 42816 $-$ 12937

$$(7) 10000 - 2468$$

$$(8) 40000 - 987$$

- 5 The population in a village is 12638 people. The number of male is 6155. How many female are there in this village?
- 5 Let us subtract side by side 74853 35427



As with addition, we can subtract digits from the ones place to the larger places, putting a sign over the digit on which calculation is done. Also be careful about borrowing.

6 .0 4 10

6 Let us subtract

- (1) 75000 42000
- (2) 48670 45550
- (3) 65200 42500

- (4) 74391
- 52810
- (5) 92314 57858
- (6) 100000 11111

Let us do

1 Let us tick (\) the c	1 Let us tick (\(\cdot\)) the correct answer.							
(1) What do you call the subtracted?	number from	n which anoth	er number i	S				
a) Subtrahend b)	Minuend	c) Differenc	e d) S	ubtraction				
(2) Annabia has Tk 1500 how much more more				o find out				
a) Addition b)	Subtraction	c) Multiplie	ation d) D	ivision				
(3) Rant has Tk. 1200. Sangita has Tk. 600. To find out the difference of their money, which of the following is correct? a)1200 = 600 b)1200 = 600 c) 1200 = 600 d) 1200 = 600								
(4) 1020 - 111 =	? What	will be the num	ber in the blar	ık box?				
a) 109 b) 9	909	c) 919	d) 94	9				
(5) Riaz has bought a hi seller How much mo				to the fish				
a) Tk.150 b) T	Tk 250	c) Tk.1150 d) Tk.1250						
2 Let us answer in sho	ort.							
 a) While subtraction, from which place value do you start calculation? b) What is a subtrahend? c) If 101 is subtracted from 1000, what will be left? 3 Let us subtract. 								
(1) 4624 2230	(3) 7693	3958	(2) 6215	4329				
	(2) 7682		(3) 6315					
(4) 1395 851	(5) 3213	2426	(6) 1000	356				
(7) 59457 36021	(8) 43520	22619	(9) 14283	7648				
(10) 43625 876	(11) 83153	33216	(12) 50000	38427				

- 4 Mr Hasan sold books worth 5620 taka on the first day and worth 6385 taka on the second day at the book fair. How much more did he sell on the second day?
- 5 Nazma Begum went to the market with 1560 taka. She spent 975 taka. How much money is she left with?
- 6 The monthly income of Mr Rahim is 18550 taka and monthly expend iture 17984 taka. How much is Mr Rahim's monthly deposit?
- 7 Lima has 3470 taka and Rahul has ?645 taka. How much more money does Lima have?
- 8 Bijay bought a bicycle for taka 35465 and a TV for taka 45722. How much more money did he spend on the TV?
- 9 There are 2165 passengers in a train 796 passengers got off at one station. How many passengers are on the train now?
- 10 Abid's mother had Tk 20500. Abid went to the market with 3685 taka. How much money is left with Abid's mother?
- 11 Nasıma Begum earns taka 100000 and spends taka 88755 per year. How much money does she save in a year?
- 12 Let us make a story with the math sentence 1250 960 =

Relation between addition and subtraction



Is there any relationship between addition and subtraction?



We learned it in grade two. Can you remember? Let a solve the following problem



We had some apples After selling 6 of them we now have 8 apples. How many apples did we have at first?

> I can recall it Let's calculate -6 = 8 If 6 is subtracted from which number, 8 remains?



Subtraction and addition are reverse operations as shown below:

$$14 - 6 = 8$$
, $8 + 6 = 14$ and

$$14 - 8 = 6$$
, $14 - 6 = 8$

There is a particular relation among minuend, subtrahend and difference

1 Let us fill in the blank box.

There are 1637 passengers in a train. At a station 865 passengers got down and 730 passengers new got into the train. How many passengers are there in the train now?



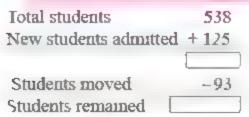


"passengers got down" will be subtracted and "passengers got into" will be added. How can we calculate?

Now there are 1502 passengers in the train.

2 There were of 538 students in a school 125 new students got admitted in that school and 93 students moved to other schools. How many students are there in the school now?

> Here new students admitted will be added and students moved to another school will be subtracted



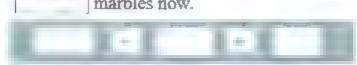
students in the school. There are

2 Let us fill in the blanks

Reza had 65 marbles. His father gave him more 48 marbles. Now Reza has marbles.



While playing with his friends, Reza lost 17 marbles. He has marbles now.



3 Create two problems by writing the suitable numbers in the blanks (one is shown).



1 (a) Limu had 14 pens. Her mother gave her more. 10 pens. How many pens does Limu have in total?



(b) Raju had 29 balloons. He gave 5 balloons to his sister. Now how many balloons are left with him?



2j (a)



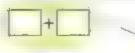
(b)



3) (a)



(b)



4 (a)



Let us do

1	I et us	tick (V)	the	correct	answer.
_	4 6 1 140	THE PART (.)	ш.	CATTARY	CITTA AL PT

- (1) 30 + ______75, which number will you put in the blank? (a) 30 (b) 45 (c) 75 (d) 105
- (2) Which one of the following is not correct?
- (a) minuend subtrahend difference (b) difference + subtrahend minuend
- (c) minuend + difference subtrahend (d) minuend difference subtrahend
- (3) 38291+16270: 545 1, what digit will be in the blank box?
 - (a) 9 (b) 8 (c) 7 (d) 6

2 Let us calculate up and down

- (1) 194 (2) 7429 (3) 5893 1 530 +704 +1639 + 284 +2048
- (5) 3 4 7 1 17 9 2 (6) 6 3 8 2 9 2 0 5 4 + 1 9 0 7 (6) 6 3 8 2 9 2 0 5 4 2 0 5 4 2 0 5 4 2 0 5 4 2 0 5 4 2 0 5 4 2 0 5 4 2 0 5 4 2 0 5 4 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5 9 2 0 5
- (13) 73650 (14) 54870 (15) 100000 (16) 82326 - 7692 - 25481 - 9 - 58889

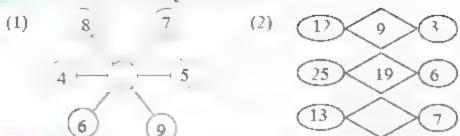
3 Let us calculate side by side

(3) 6489 3281 (4) 89420 53280

4 Let us fill in the blanks

$$(1) 98 + 2659 = 7453$$

5 Let us look for missing numbers



- Siam went to the market with taka 1800. He bought rice for taka 720, fish for taka 585 and vegetables for taka 425. How much money is left with him?
- 7 In a nursery there were 950 saplings. From this 532 saplings were sold and 820 new saplings were brought. How many saplings are there in the nursery now?
- 8 Ruma has taka 945. Asha has taka 215 less than Ruma. Their money put together equals Maina's money. How much money does Maina have?
- 9 The sum of three numbers is 89243. If two of them are 24576 and 32084, then what is the third number?
- 10 The son is 15 years old and the mother is 48 years. What will be their age in total after 5 years?
- 11 Seeta has taka 890 more than Geeta Gita has taka 520 less than Abir has Abir has taka 965 How much money do Geeta and Seeta have?
- 12 Rajeev's mother had taka 5580. Before going to market, she took taka 3420 more from Rajeev's father. She spent taka 7830 on shopping How much money is left with her now?
- 13 Taka 12000 is required for annual sports competition. Taka 5500 as government grant and taka 3700 were given from the school fund. How much more money is needed for organizing the competition?
- 14 Ratan bought a motorcycle for taka 85000. He spent taka 2500 for registration of motor cycle and taka 1200 on repairs. If he sells the motorcycle for taka 98000 now, how much money profit will he make?

Multiplication



Let us recall the multiplication table up to 10 times and fill the blanks.

multiplier

	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18		24	27	30
4	4		12	16	20	24	28	32		40
5	5	10	15	20	25		35	40	45	50
6	6	12	18	24		36	42	48	55	60
7	7	14		28	35	42	49	56	63	70
8	8	16	24	32	40		56	64	72	80

In case of multiplication, the first number is multiplicand, and the second number is multiplier.





multiplicand

In the first blank I got 21 by mustiplication of 3 and 7

Here 3 is multiplicand and 7 is multiplier



Let us think about how to find the answer to 6×5

	1	2	3	4	5	6	7	8	9	10	
6	6	12	18	2+		36	42	48	54	60	
	ancreases by decreases by										

6×5=6×4-

6×5-6×6-



The answer of 6 5 is more than that of 6 4

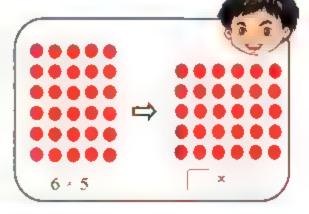


The answer of 6 5 is less than that of 6 6

If the multiplier increases by 1, the product increases by multiplicand Again, if the multiplier decreases by 1, the product decreases by multiplicand

(2) Rafi has found the product of 6 × 5 by doing another multiplication with the same product as shown in the diagram. I et's think about his

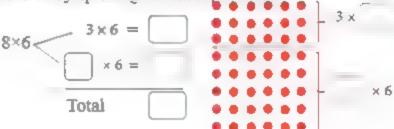
calculation.



In case of multiplication, the product remains the same even if the multiplicand and the multiplier interchange their places.

- Let us fill in the blanks
 - (1) The answer of 4×6 is ____ more than that of 4×5
 - (2) The answer of 7×8 is less than that of 7×9
 - $(3) 5 \times 4 = 5 \times 3 \square$
 - (4) 8 × 9 = 8 × 10
- 2 Let us split the multiplier or multiplicand into two numbers and calculate 8×6

Let us calculate by splitting the multiplicand,



Let us calculate by splitting the multiplier

If the multiplicand or the multiplier is split into two numbers, the product remains the same

2 Let us fill in the blanks.

$$(1) 9 \times 5 = 5 \times 5 = \times 5$$

$$(2)7 \times 4 = 7 \times \boxed{} \cdot 7 \times 2$$



Let us think about how to calculate 13 x 5



I have added 5 times of 13. 13 ÷ 13 ÷ 13 ÷ 13 ÷ 13 To do this calculation let's use the rules of multiplication





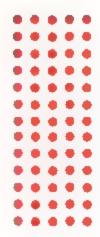
$$13 \times 5 = 5 \times 13$$
 Then

$$5 \times 9 = 45$$
 $5 \times 10 = 50$

Simplify Increase by 5

Increases by 5

Simplify Increases by 5



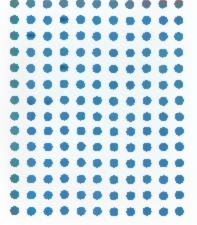


I have splitted 13 in two numbers

$$13 \times 5 = \boxed{ 10 \times 5 = \boxed{} }$$

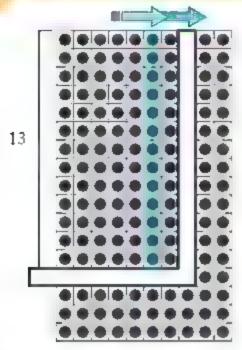
$$10 \times 5 = \boxed{}$$

1 Let us calculate 14 · 11 using rules for multiplication.





Let us make the multiplication table of 13



Multiplication table of	13
13 × 1 13	
13 x 2 26	
13 x 3 -	
13 × 4 =	
13 × 5 =	
13 × 6 =	
$13 \times 7 = \boxed{}$	
13 × 8 =	
13 × 9 =	
13 × 10 =	

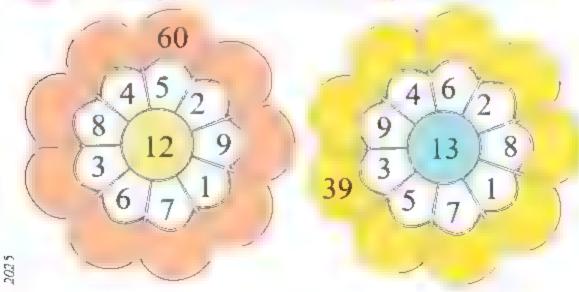
1 Multiply from the following picture and write in the box.

10 times	
3 times	

- 1 Tahsin wants to buy 13 tops. If the price of each top is taka 8, how much does he need to pay?
- 2 Let's match by drawing lines.(One is done)

14 × 1	i	56
14×2	1 /	140
14 × 3	1/	1 28
14×4	1	112
14 × 5		84
14 × 6	1	98
14 × 7	I	1 14
14 × 8	1	l 126
14×9	1	i 70
14 × 10	1	1 42
-	-	

2 Let us multiply and fill in the blanks in the pictures below.





Let us complete the table below by multiplying up to 15



Let's calculate as we did to find 13×5 or 14-11. Then write the product in the multiplication table.

multiplier

		_					_			_		_	_	_	_	
ı		L	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ı]	l	2	3	4	5	6	7	8	9	10					
ı	2	2	4	6	8	10	12	14	16	19	20					
ı	3	3	6	9	12	15	18	21	24	27	30					
ı	4	4	8	12	16	20	24	28	32	36	40					
Ì	5	5	10	15	20	25	30	35	40	45	50					
ı	6	6	12	18	24	30	36	42	48	54	60					
ı	7	7	14	21	28	35	42	49	56	63	70					
ı	8	8	16	24	32	40	48	56	64	72	80					
ı	9	9	18	27	36	45	54	63	72	81	90					
ĺ	10	10	20	30	40	50	60	70	80	90	100					
ı	11															
ı	12															
	13															
	14															
	15															
•																

ultiplicand



A pineapple costs 20 taka. If you buy 4, how much will it cost?









Mathematical sentence: 20 × 4=

$$2 \times 4 = 8$$

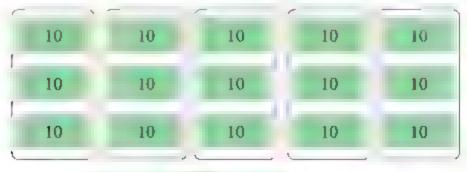
$$10 \text{ times} \qquad \qquad 10 \text{ times}$$

$$20 \times 4 = \boxed{}$$

There are 2 tens in the number 20. The answer is 8 tens. So, it will cost taka 80 for 4 pineapples



1 How is 30 - 5 to be calculated?



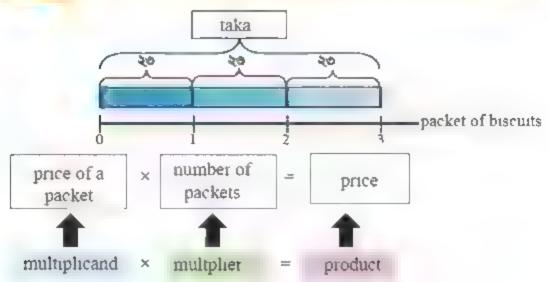


1 | Let us multiply

- $(1)20 \times 3$
- (2) 40×2
- $(3)\ 30 \times 4$
 - $(4) 50 \times 6$



Reza wants to buy three packets of biscuits. The price of one packet is 23 taka. How much does he need to pay for it?



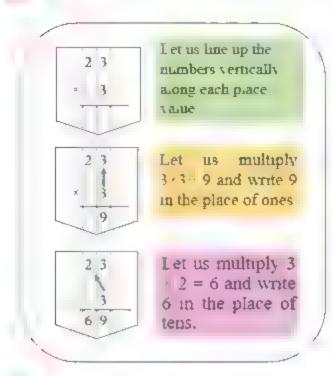
Let us write the mathematical sentence



Now let's think about how to calculate using the table below

tens	ones		
10 10	1 1 1	1	
10 10	1 1 1	- 23 × 3	23 × 3
10 10	1 1 1		20 2
20 × 3	3 × 3		
23 × 3	69		

1 Let us think about how to multiply 23 * 3 up and down.



1 Let us multiply vertically

- (1) 1 2 x 4
- (2) 2 1 x 4
- (3) 3 2 20

- (4) 2 2 X
- (5) 3 0 ×
- (6) 2 0 × 3

2 Let us multiply.

- 34×2 (2) 24×2 (3) 30×3 (4) 20×4

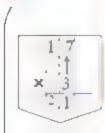


Let us think about how to multiply 17 × 3



We can divide 17 into two parts 10 and 7

1 Let us think about how to multiply 17.3 vertically



Let us multiply 7 3= 21 and write 1 in the place of ones and 2 m the place of tens as in the left figure



Let us multiply 1 3=3 and add 2 (3-2= 5) then write 5 in the place of tens

1.7	
× 3	
2.1	7 × 3
- 30	10 × 3
5.1	

1 Let us multiply vertically

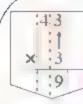
- (1) 2 4
- (2) 1 2
- (2) 4 8

- 2 Let us multiply sideways
- (1)
- 18 × 5 (2) 26 × 3 (3) 39 × 2 (4) 25 × 4



Let us think about how to multiply 43:3 and 67:3.

(1) 43×3

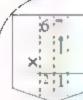


Let us multiply 3 3-9 and write 9 in the ones place



multiply Let us 4 3-12 and write 2 in tens place and 1 in the place of hundreds

(2) 6"×3



Let us write I in the place ones and 2 in the tens place

x; 3 2:0:1

Let us multiply 6 3-18 Add 2 (18 - 2 = 20) Write 0 in the tens place and 2 in the hundreds place

6 7	
× 3	
2.1	7 × 3
-180	60 × 3
201	

1 Let us multiply sideways

- (1) 62 × 4
- (2) 41 × 5
- (3) 72×3
- (4) 37 × 5

- $(5) 32 \times 8$
- (6) 68 × 4
- 79 × 2 (7)
- (8) 95 × 6



Let us think about how to multiply 231 - 3

hundreds	tens	ones
100 100	10 10 10	1
100 100	10 10 10	I
100 100	10 10 10	1

231 × 3

200 × 3

30 × 3

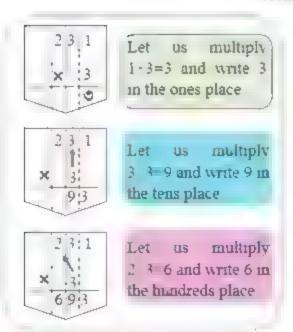
 1×3

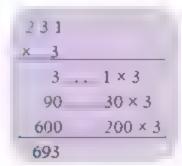
$$200 \times 3 = 600$$

$$231 \times 3 = 90$$

$$1 \times 3 = 3$$

$$total 693$$



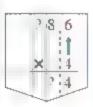


1 I et us multiply sideways.

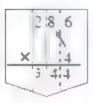
- (1) 121×4 (2) 314×2 (3) 232×3 (4) 423×2

1 Let us think about how to multiply 286 x 4.

286 × 4



Let us multiply 6 · 4 ' 4 and write 4 in the ones place and ', small size) in the tens place



Let us multiply 8-4-32 and add 2(32-2=34) and write 4 in the tens place and 3(small size) in the hundreds place



Let us multiply 2 4=8 and add 3, 8=3=11) and write 1 in the hundreds place and 1 in the thousands place

2 Let us multiply sideways.

- (1) 162 × 3
- (2) 273 × 2
- (3) 153 × 5

- (4) 249 × 4
- (5) 912 × 3
- (6) 651 × 4

- (7) 276 × 7
- (8) 475 × 8
- (9) 604 × 8

- $(10) 207 \times 5$
- (11) 820 × 7
- (12) 380 × 6



There are 30 benches in a classroom 4 students can sit on each bench. How many students can sit on 30 benches?

mathematical sentence 1.30=

Let us explain Mina's idea about how to calculate 4-30





The product remains same even though the multiplicand and the multiplier interchange their places. So, the product of 4×30 and 30×4 is the same

The product of 4 30 is ten times of the product of 4.3.

$$4 \times 3 = 12$$

$$10 \text{ times} \qquad 10 \text{ times}$$

$$40 \times 30 = 120$$

Let us calculate 20 - 40 as shown in the figure on the right side.

2 × 4 12

Let us multiply

- (I) 3×20
- (2) 7 × 40
- (3) 8 × 60
- (4) 4 × 50

- (5) 12 × 30 (6) 25 × 20
- (7) 30 × 50
- (8) 60 × 70



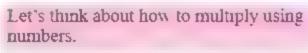
Mina has bought 13 pencils. If each pencil costs taka 21, what will be the total price of all pencils?



Let's think about how we can calculate

$$21 \times 13 = 273$$

Total price is taka 273





Let's express 21 and 13 in their place values.

21 = 20 ± 1		20	1
13 - 10 + 3	10	200	10
13 10 + 3	3	60	3

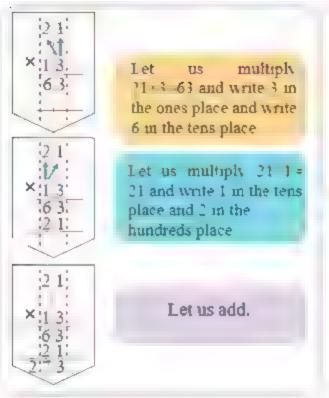
Total = 273

200	
60	
10	
3	
2-3	

Total price is taka 273

Let us now think about how to multiply vertically







Let us think about why 21 shifted like the figure on the left not starting from the ones place

- 1 Let us multiply
 - (1) 12 ×24

(2) 63 ×16 (3) 30×23

- 2 Let us multiply sideways.
- (1) 41 × 23
 - (2) 25 × 24
- $(3) 17 \times 42$
- (4) 15 × 36

1 Let us explain how the following multiplications have been done

Here, to multiply a digit has been carried.



SE.

We have learnt multiplication with carrying

31 Let us multiply.

4 Let us multiply sideways.

$$(1)35 \times 57$$

$$(2)81 \times 49$$

$$(3)\ 25 \times 64$$

$$(4)48 \times 96$$

$$(6)38 \times 20$$

$$(7) 87 \times 50$$

$$(8) 70 \times 80$$



Let us think about how to multiply 367, 25

	3.6;7
	×) 5
1	8 3; 5:
-	

367

367 -5

7.5=35 5 is in the place of ones and the carried 3 is in the place of tens 6.5 = 30 (30 + 3 - 33) 3 is in the place of tens and carried 3 is in the place of hundreds 3-5-15 (15-3-18) 8 is in the place of hundreds and 1 is in the place of thousands

367 - 2

7:2=14 4 is in the place of tens and carried 1 is in the place of hundreds 6 2=12 (12-1=13) 3 is in the place of hundreds and 1 is in the place of thousands 3.2=6 (6-1=7) 7 is in the place of thousands

Let us add.

- Let us multiply sideways.
 - $(1) 213 \times 23$
- $(2)\ 163 \times 47$
- $(3)\ 264 \times 27$
- $(4)314 \times 26$

- (5) 367 × 32
- $(6)685 \times 83$
- $(7) 517 \times 43$
- $(8)528 \times 79$

- (9) 404 × 42
- $(10)\ 203 \times 54$ $(11)\ 309 \times 85$
- $(12) 708 \times 26$
- 2 Let us think about how to multiply 502 × 63
- 3 Tondra Chakma drives a car at 45 kilometers per hour. How many kilometers will she drive in 8 hours at the same speed?

Let us do

Let us tick (\) the correct answer

(1) Wh	uch one	of the	following	is the	product	of 500	£	300
--------	---------	--------	-----------	--------	---------	--------	---	-----

(a) 150

(b) 1500

(c) 15000

(d) 150000

(2) What is the product of 172 + 50°

(a) 5500

(b) \$500

(c)8600

(d) 17250

(3) Which one of the following is equal to 70 . 50°

(a) 7 · 5

(b) 7 · 50 (c) 70 · 5

(d) 70 × 50

Let us multiply.

 $(1) 15 \times 5 =$

 $(2) 18 \times 9 = \Box$

 $(3) 53 \times 8 =$

 $(4) 75 \times 6 =$

 $(5)21 \times 31 =$

 $(6) 48 \times 93 =$

 $(7) 121 \times 31 = 1$

(8) 495 × 14 = __

 $(9) 284 \times 28 =$

(10) 269 × 35 =

3 Let us multiply.

(1) 14 x 2

(2) 56 × 6

(3) 90 × 5

(4) 36 ×48

(5) 28×73

(6) 89 × 64

(7) 121 x 23

(8) 305× 7

(9) 486 x 9

(10) 210 x 20

(11) 373×28

(12)298× 35

- 4 1 hali consists of 4 pieces. How many will be in 5 hali?
- 5 If there are 6 flowers in a bunch, how many flowers will be in 8 such bunches?
- 6 Taskia reads books 4 hours daily. How many hours does she read books in a week?
- 7 There are 24 sheets of paper in a quire. How many sheets of paper are there in 12 quires?
- 8 100 paisa equals 1 taka. How much paisa will be in 10 taka?
- 9 There are 130 pages in a book. How many pages are there in such 28 books?
- 10 Mili has Tk. 225 Munni has 14 times more than Mili's How much money does Munni have?
- 11 The price of one hilsa fish is Tk. 750. What is the price of such 20 hilsa fish?

Division



How many will each one get?



1 There are 12 biscuits. If these are equally divided among 3 children, how many biscuits will each get?



Let s think about how to calculate





This type of calculation is called Division and the symbol, + is the division mark



2 Let us take some oranges on a plate and divide them among 3 children.















I ve taken 6 oranges and divided them among 3 children in this way





Ive taken 3 oranges and divided them among 3 people in this way





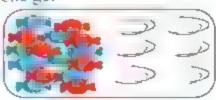


()+3=()

If there is no orange on the plate how many will each one get?



3 There are 18 chocolates If these chocolates are equally divided among 6 children, how many will each one get?



Let's write it in the mathematical sentence and calculate.

Total number of chocolates

number of

number of chocolates

Let us make similar questions using different number of things around us



chocolates



There are 20 bananas. If these are equally divided among 5 children, how many will each one get?

Let's think and discuss how to get the answer using multiplication.



[1] When we give 1 banana to each of 5 children, the number of bananas is-

. . .

1 - 5 - 5

[2] When we give 2 banana to each of 5 children, the number of bananas is-

60 60 60 60 2 · 5 = 10

[3] When we give 3 banana to each of 5 children, the number of bananas is-

[4] When we give 3 banana to each of 5 children, the number of bananas is-

We can use the multiplication table of 5 to evaluate 20+5.

Each of the children will get 4 bananas.

- I If 48 sheets of paper are divided equally among 8 children, how many sheets will each one get?
- 2 Father has taka 63 He wants to divide this money equally among 7 members in his family How much will each one get?
- 3 The price of 1 hali of eggs is Tk. 48. What is the price of an egg?



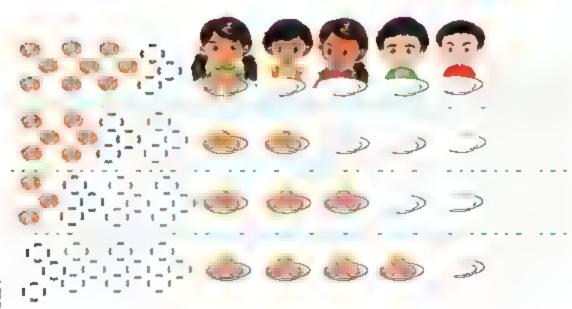
How many children can share?



1 There are 12 biscuits. If each child gets 3 biscuits, how many children can get the biscuits?

Let's think about how to calculate





Let's give 3 biscuits to each of the children from 12 biscuits. We can divide the biscuits, 3 for 1, $2 \times 3 = 6$ for 2, $3 \times 3 = 9$ for 3, $4 \times 3 = 12$ for 4. In this way, 12 biscuits can be divided among 4 children giving 3 to each one





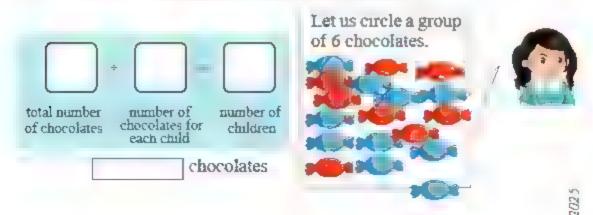
Have you found any difference between this division and the previous division?



There are 18 chocolates. If we give 6 chocolates to each of the children, how many children will get the chocolates?



Let's write in a mathematical sentence and calculate





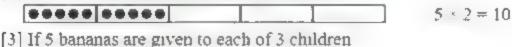
There are 20 bananas. If each child gets 5 bananas, how many children can get the bananas?

I et's think and discuss how to get the answer using multiplication.



[1]	If 5	bananas	are	given	to	1	child
-----	------	---------	-----	-------	----	---	-------

****		5	, 1 = 5
		_	



To get the answer of 20÷5, we can use the multiplication table of 5.

4 children

1 We distributed 32 lichis among a few children. Each child got 8 lichis How many children were given lichis?

2 There are 45 notebooks for awarding the students of a school. If 5 notebooks are given to a student, how many students will get pril es?

Calculation of Division



Let us divide 16 ÷ 2

We can calculate division by multiplication.

2 - 16

2 × 8 16

16 ÷ 2 8

We can calculate division using the multiplication table of?

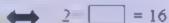




? 3 6

2 8 16, So the answer is 8

In case of division, like16÷2, 16 is dividend, 2 is called divisor



dividend divisor quotient

1 Let us divide

$$(1)$$
 3 + 1

$$(2) 6 \pm 1$$

$$(3) 12 + 2$$

$$(4) 2 \pm 2$$

$$(5)$$
 $18 + 2$

$$(6) 20 \pm 2$$

$$(7) 9 + 3$$

$$(8) 12 + 3$$

$$(9) 6 + 3$$

$$(10) 3 + 3$$

$$(11) 21 + 3$$

$$(12)27 + 3$$

2 Let us divide

$$(1)$$
 16 ± 4

$$(2) 20 \pm 4$$

$$(3) 40 \pm 4$$

$$(4) 32 \div 4$$

$$(5)$$
 $15 + 5$

$$(6) 30 + 5$$

$$(7)$$
 45 ± 5

$$(9) 18 + 6$$

$$(11) 42 \div 6$$

$$(12) 54 + 6$$

3 Let us divide

$$(1) 42 \div 7$$

$$(2) 70 \div 7$$

$$(3)$$
 28 \pm 7

$$(4) 14 \div 7$$

$$(5) 72 \div 8$$

$$(6) 32 \div 8$$

$$(7) 16 \div 8$$

$$(8) 40 \div 8$$

$$(9) 27 \div 9$$

$$(10)9 \div 9$$

$$(11)81 \div 9$$

$$(12)54 \div 9$$



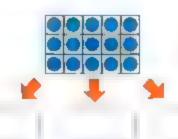
Let us create a mathematical problem for the mathematical sentence 15 · 3 ?



We have learnt two types of division.

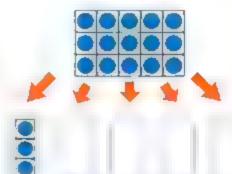
- How many will each one get?
- How many will be given?
- (a) How many will each one get?

There are 15 biscuits. We will divide them among 3 children. How many biscuits will each one get?



(b) How many will be given?

We will distribute 15 biscuits among some children so that every child can get 3 biscuits. How many children get the biscuits?

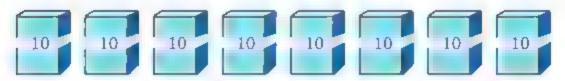




Write a mathematical problem in the box below



There are 80 colour papers. If these papers are divided equally among 4 children, how many papers will each one get?



Mathematical sentence, 80÷4 =

Let's think about how to calculate 80-4



10	10	10	10
10	10	10	10

There are 8 bundles made up of 10 sheets of paper each. To calculate how many bundles of the 10 sheets each child will get we can use 8-4



$$8 \div 4 = 2$$
$$80 \div 4 = \square$$

Each one will get

- 1 There are 90 oranges. If these oranges are divided among 3 children equally how many oranges will each one get?
- Let us divide

(1)
$$60+2$$
 (2) $50+5$ (3) $60+3$ (4) $80+2$

$$(2) 50 + 5$$

$$(3) 60 + 3$$

$$(4) 80 \div 2$$

- 3 Let us tick (\) the correct answer
- (1) From 12, 3 can be subtracted 4.2.3 times
- (2) If we divide 27 by 9 the quotient is 3 4 5
- (3) 10 added of 10 times makes 90 100 110



There are 84 sheets of colour papers. If these are divided among 4 children equally, how many sheets of papers will each one get?



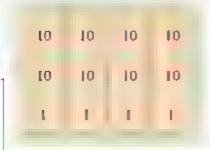


Mathematical sentence, 84+4 -

Let's think about how to calculate 84-4







I've calculated the place of ones and tens separately

$$\begin{array}{c|c}
 80 \div 4 \\
 \hline
 80 \div 4 \\
 \hline
 80 \div 4 = 20 \\
 \hline
 4 \div 4 = 1
 \end{array}
 \begin{array}{c}
 -20 \\
 \hline
 1
 \end{array}$$

Each one will get ___ papers



Share your idea with your friends

- 1 Let us divide
 - (1) 36 ÷ 3 (2) 86 ÷ 2 (3) 69 ÷ 3 (4) 77 ÷ 7



Reza has 14 oranges. And, he wants to divide these oranges among 4 of his friends equally. How many oranges will each one get?

Let us write the mathematical sentence



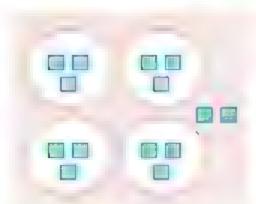


Let us think about how to get the answer

I use blocks to find the answer

I use multiplication tables for that





When 2 oranges are given to each one, 4×2=8, remains 6. When 3 oranges are given to each one, 4×3=12, remains 2. When 4 oranges are given to each one, 4×4=16, 2 remains short.



If I distribute 14 oranges among 4 of my friends I can give 3 to each of them and 2 oranges will be left

Mathematical sentence

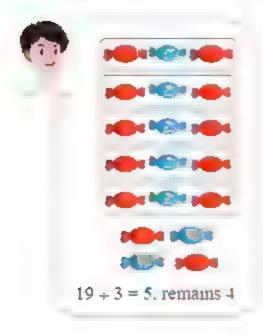
14+4 3. remain 2.

Each of the friends will get 3 oranges and 2 will be left.

14 4 3, remaining 2

dividend divisor Quotient Remainder

You have 19 chocolates. If you give 3 chocolates to each of your friends, how many of them will get these chocolates?





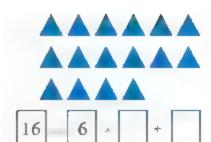
The remainder is smaller than the dividend remainder < dividend

- Let us divide

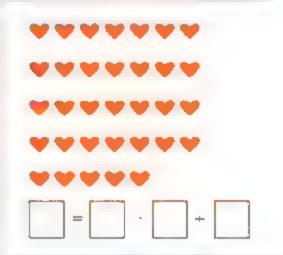
 - (1) 9+2 (2) 14+3
- (3) 26 + 5
- $(4) 75 \div 9$
- (5) 67 + 10 (6) 52 + 7 (7) 71 + 8
- $(8) 41 \div 6$
- 3 There is a 30 cm long ribbon. The ribbon is cut into some number of 4 cm long pieces. How many 4 cm long pieces will we get? How many pieces of the ribbon will be left?

4 Let us fill in the blanks below. One is done.



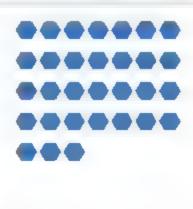








		.	
***	ж	+	



1				
		×	+	

1 Let us tick	(\(\frac{1}{2}\)) the correct ar	iswer.	
(1) What is the	remainder of 26	÷ 5?	
(a) 25	(b) 1	(c) 26 (d	1) 5
(2) Which one	of the following i	s correct?	
(a) remaind	er > divisor	(b) remainder	divisor
(c) remaind	er < divisor	(d) divisor < remaind	ler
(3) 7) 43 (6	What is the divis	sor in this division?	
42	a) 1	b) 6 c) 7	d) 43
1 '	pr-14		
(4) $125 \div 5 =$; wh	at will be in the blan	k ²
a) 21	b) 25	c) 120	d) 130
2 Let us fil	ll in the blanks	S.	
		×+	
3 Let us divi	de.		
(1) 8+2	(2) 9 + 3	(3) $12 \div 2$	(4) 21 + 3
(5) 45 ± 5	(6) 30 + 6	(7) 64 ± 8	(8) 54 + 9
(9) 42 ÷ 7	$(10) 35 \pm 5$	(11) 28 ÷ 4	(12) 63 + 7
4 8 mangoes will each or	_	ly between 2 people	How many mangoes

3

5 24 lozenges were equally divided among 4 people. How many

lozenges will each one get?

- 6 Iaka 27 were divided equally among 3 people. How much money will each one get?
- 5 people can sit on a bench. How many benches will be needed for 45 people?
- Nafid bought some quail eggs with taka 32. If the price of an egg is taka 4, how many eggs did Nafid buy?
- Teams were formed with 8 students in each group. If there were 72 students, how many teams were formed?
- Sadid is reading a book of 54 pages. If he reads 6 pages in a day how many days will it take to finish reading this book?
- There are 8 biscuits in a packet. A girl bought 2 packets. How many biscuits did she buy?
- 12 Let us divide:

$$(1) 8 \div 3 \quad (2) 15 \div 2$$

(1)
$$8 \div 3$$
 (2) $15 \div 2$ (3) $37 \div 5$ (4) $52 \div 7$

$$(5) 23 \div 8 (6) 31 \div 4$$

$$(5) 23 \div 8 \quad (6) 31 \div 4 \quad (7) 73 \div 10 \quad (8) 40 \div 9$$

- There are 45 students in a Classroom, 3 students can sit on each bench. How many benches are required for them?
- 48 guavas were equally divided among 6 people. How many 14 guavas did each one get?

Relation between multiplication and division



Is there any relation between multiplication and division?



Multiplication is adding the same number over and over On the other hand, division is subtracting the same number over and over

Then multiplication and division are opposite to each other

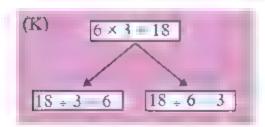


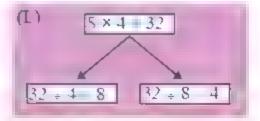
Let us see through an example



Multiplication		Div	ision	
7 4 = 28	28 ÷ 4 = 7		28 ± 7 = 4	
since,	since.		since.	
$7 \div 7 \div 7 \div 7 =$	28 - 4 = 24	24 - 4 = 20	28 - 7 = 21	21 - 7 = 14
28	20 - 4 = 16	16 - 4 = 12	14 - 7 = 7	7 - 7 = 0
	12 - 4 = 8	8 - 4 = 4		
		4 - 4 = 0		

However, multiplication and division are interrelated. We can use this relation to check answers to multiplication and division.





1 Tahsin had 40 colour pencils. He divided the pencils equally into 5 portions and provided 2 portions to Ratul. How many pencils did Ratul get?



Let us think how to find out the number of pencils provided to Ratul

I think at first, we have to divide 40 by a for equal five portions. I divide it as below and find 8 in each portion.





To provide ? portions to Ratul multiply the quotient by ?

$$8 \times 2 = 16$$

That means, Ratul got 16 pencils

- 2 1 pen will be presented to each of the 20 guests at the school function of Proma. She spent taka 120 and brought 20 pens. The teacher asked her to buy 5 more pens. So, how much more money will she need?
- 3 How to do the calculation 12 ÷ 2 = 6?



Let s use the following sample to do this calculation



The sample uses multiplication and division Let's decide which one to do first.





Multiplication and division are calculated from left to right

- 1 Let us fill in the blank box
 - (1) 15 ÷ 3 × 4 =
- (2) 45 × 4 ÷ 5
- (3) 23 × 4 ± 2
- (4) 63 ÷ 7 × 6 -
- 4 Each of 6 baskets has 21 mangoes. If the mangoes are divided among 14 people, how many mangoes will each one get?



First we need to calculate how many mangoes there are having ?1 in each 6 baskets. Then divide to provide it to 14 people.

The solution is number of mangoes × number of baskets = number of people



Mathematical sentence

Each will get 9 mangoes.

2 Buy 4 packets of 30 chocolates. Divide them equally among 15 of your friends. Now, how many chocolates each one will get?

Mathematical sentence





_____ chocolates

2025

5 Price of 12 pens is such 32 pens?	taka 96. How much money is required to buy
	need to calculate the price of in the price of 12 pens
96 ÷ 12	Use the multiplication table of 12 and verify
= 8	96 ÷ 12 = 8
The cost of a pen is ta	ka 8.
	Now we need to multiply 32 by the price of 32 pens
8 × 32	
= 256	
The price of 32 pen	s is 256 taka.
3 If the price of 13 b	ananas is taka 117, how much money will be bananas?
Mathematical sentence	·e
Step 1	
The price of 1 banana	is taka
Step 2	

taka will be required

Let us do

1	Let us	tick (√) the	correct	answer.

(1)	Each of 2	packets o	ontains	10 pens	If the per	os are di	viđed	l equally
	among 5	students,	how ma	my pens	will each	student	get"	Which is
	the correc	rt procedi	ire to so	lve the p	roblem?			

- (a) Number of packets number of pens number of students
- (b) Number of packets . Number of students . Number of pens
- (c) Number of pens · Number of students ÷ Number of packets
- (d) Number of pens · Number of packets ÷ Number of students

(2) Which one of the following is correct to express 7+7+7+7+7+7+7+7+7

- (a) 7+8 (b) 8×7 (c) 7×8 (d) 7×7
- (3) Tk. 8 was collected from each of the 30 students. The total amount was divided equally between 2 friends to buy notebooks. How much money did each friend get?
 - (a) Tk. 240 (b) Tk. 120 (c) Tk. 60 (d) Tk. 30
- (4) Moyna studies for 2 out of 8 portions of a day. How many hours does she study in a day?
 - (a) 3 hours (b) 4 hours (c) 6 hours (d) 8 hours

2 Answer in short.

- (1) What is it called to add a number repeatedly?
- (2) Express 4-4-4+4 in multiplication.
- (3) What is it called to subtract a number repeatedly?
- (4) How many times can 4 be subtracted from 136?
- (1) Express adding 7 for 25 times in an alternative way.
- (2) Express adding 18 for 3 times in an alternative way.

3 Fill in the blanks.

- 4 12 friends will buy 18 notebooks for Γk. 2? per notebook. How much will each of them pay?
- 5 3 notes of 500 taka are divided among 15 people How much money will each person receive?
- 6 63 friends donated at the rate of Tk. 50 and distributed it among 9 helpless families. How much money will each family receive?
- 7 Helen provided 5 of 13 portions of a 104 meter long ribbon to her younger brother Rifat. How many meters of ribbon did Rifat receive?
- 8 How much is 4 portions from 9 portions of Tk. 99°
- 9 Salma travels 13 portions from 14 portions of 112 kilometers path by bus and walks the rest. How far does she travel by bus?
- 10 Let us make a story for the following mathematical sentence.

Problems related to addition, subtraction, multiplication and division



A pencil costs taka 20 and a drawing book costs taka 150 How much money will it require to buy 5 pencils and 1 drawing exercise book?







First we need to calculate the cost of 5 pencies to find the total cost

For this calculation, we need to multiply first and then add



1 To get the price of 5 pencils we need to multiply the price of a pencil by 5

If the price of 1 pencil is 20 taka, the price of 5 pencils will be $20 \times 5 = 100$ 100 taka

2 The cost of a drawing exercise book is 150 taka. So, to find the cost of 5 pencils and 1 drawing book we need to add the cost of 1 drawing book to the cost of 5 pencils.

To buy 5 pencils and 1 drawing book, we need 100 ± 150 250 250 taka

1 There are 30 mangoes in each of the 6 baskets. Another basket has 37 mangoes. How many mangoes are there in 7 baskets?

There are a total of		mangoes in 6	baskets.
7 baskets have a tota	1 of	mangoe	25
The mathematical se	ntence would be		
	×	+	
	= +		
	= mang	oes	
	Let s	think about more w solve it	ays to
2 Mr. Rahim paid the rate of taka 18		opkeeper to buy 4 week will the shopkee	
(France)			
185 taka	185 taka	185 taka	185 taka
	e the problem we n subtract	need to multiply fi	rst
		d be the mathema	tical

 185×4

Mathematical sentence would be, 750

1 First, it is required to multiply the price of 1 watermelon 185 taka by 4

185 × 4 + 740 taka

2. The price of 4 watermelons need to be subtracted from 750

750 - 740 = 10

The shopkeeper will return 10 taka



3 42 students of class 3 of a school collected 30 taka from each and donated 1000 taka to help the flood victims. How much money do they have now?

30 students contributed a total of taka
After donating to the flood victims, they have left with
taka
The mathematical sentence ×
=
Rest of the money is taka.

4 The price of a book is 95 taka and the price of 12 pens is 180 taka. How much money will require for Reza to buy 1 pen and 1 book?



Price of 1 book is given. We need to find the price of 1 pen.

- 1 To find the price of a pen we need to divide 180 taka by 12. $180 \div 12 = 15$ taka
- 2. Add the price of 1 book and 1 pen.

The price of 1 book and 1 pen is 95 - 15 = 110

=110 taka

Your father gave you Tk. 250 and mother gave Tk. 150. You want to buy notebooks and pens for 5 friends of your class. How much money can you spend for each friend?

Total amount is - = taka.

Each one can be givan = taka.

Each one can be givan taka.

6 60 litchis are plucked from each of 15 litchi trees in a garden and divided equally among 20 people. How many will each of them receive?

To solve the problem we need to multiply first and then divide

1. First we need to multiply 60 litchis of a tree

60 × 15 = 900 900 litchis

2 Total Litchis is to be divided by 20.

900 ÷ 20 45 45 litchis

wealthy people to i	
Fach family can be gi The mathematical ser Each family o	ntence
8 550 mangoes were j	plucked from one tree, out of those 46 mangoes nangoes are divided equally among 8 people.
of green n	problem first we need to subtract the number nangoes. Then it is required to divide by 8 and be the mathematical sentence to solve the problem?
1 First we need to	subtract 46 from 550.
550 - 46 =	504 ripe mangoes
2 divide 504 ripe	mangoes by 8.
504 + 8 = 6 63 mangoe 9 Make a story using (One is done for yo	the following mathematical sentences
75 ÷ 3 + 46 =	Plucking 15 litchis from a tree, 3 friends divided them among themselves equally Also, each of them received 46 litchis from another tree. How many litchis did each one receive?
55 × 30 ÷ 50	
35 × 12 145	

Let us do

1	1 Let us tick ($$) the correct answer.				
, ,	(1) Nahid picked 30 mangoes and kept 10 mangoes aside. He distributed the remaining mangoes equally among 5 friends. How many mangoes did each friend get?				
1	a) 3	b) 4	c) 6	d) 20	
(2) You took Tk. 150 from your father and Tk 60 from your mother You divided the sum equally among 3 friends to buy notebooks and pens How much money did each friend get?					
i	a) Tk.150	b) Tk 90	c) Tk 70	d) Tk. 60	
,		pencil is Tk. 20 an ce of 3 pencils and	•	tebook is Tk. 30,	
i	a) Tk. 30	b) Tk. 50	c) Tk. 60	d) Tk. 90	
(4)	If the price of 1	dozen eggs 15 Tk.	120, what is the pri	ce of 4 eggs?	
	a) Tk. 10	b) Tk. 30	c) Tk. 40	d) Tk. 48	
	divided equally	re picked from each y among 4 people, k e of the following is	ow many mangoes	will each person	
1	a) 8 × 6 ÷ 4	b) 8 ÷ 4 · 6	c)6÷4 8	d) 6 × 8 ÷ 4	
	-	hocolates to each of the following is co		-	
i	a) 5 ÷ 4 · 2	b) 5 · 4 ~ 2	c) 4 · 5 ÷ 2	d) 4 × 5 × 2	
2	The price of a p	encil is 20 taka and	the price of 5 note b	ooks is 150 taka.	
	How much mor	ney will be required	to buy 5 pencils and	d 5 note books?	

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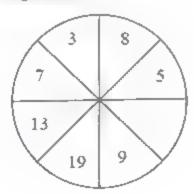
3 A book and 3 pens cost 95 taka altogether. A pen costs 20 taka. How

much is the price of a book?

- 4 A bookshelf can hold 42 books. There are 2 such shelves full of books Besides there are 8 more books. How many books are there in total?
- 5 Faisal receives a stipend of 120 taka per month. From his 12 months stipend's money, he gives 120 taka to his sister Reena. How much money does he have now?
- 6 There are 74 litchis in a basket Another basket has 70 litchis. The litchis of two baskets were put together and divided equally among 8 people. How many litchis did each one get?
- 7 Surma sells 6 dozen eggs at taka 120 per dozen and from that she spends taka 95 She keeps the rest of the money in the bank. How much money does she save in the bank?
- 8 Each of 40 students contribute 80 taka to help flood victims and the total amount is divided equally among 10 people. How much money does everyone receive?
- Luna receives a stipend of taka 1800 per year. She deposits taka 55 per month from the stipend in her money bank and spends the rest. How much money does she spend per month?
- 10 Let us create a story:

(a)
$$350 - 50 + 6$$
 (b) $50 \times 30 - 950$

11 Let us find the missing number



Fractions



We have a bread. How can we divide the bread so that Reza and Mina can share the bread equally?





Can I divide this way?



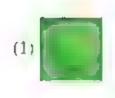
Here the two portions are not equal. We will divide the bread into two equalportions





Let us divide the two adjacent shapes of paper into equal parts









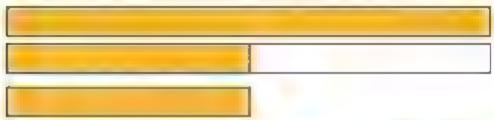








Let us divide a strip of paper into two equal parts



When we divide an object into 2 equal parts, we call each part a half or one of two parts and write \frac{1}{2}

half or one of two parts

Which piece is \frac{1}{5} of a?

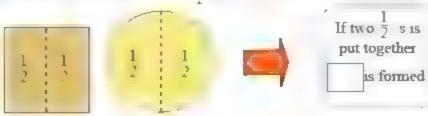
a 📗



Let us colour 1/2 of each shape below



What will be formed if two $\frac{1}{2}$'s are put together?





A paper is divided into 4 equal parts. What is each part called?



When we take one of two parts of something whole or full, we write it $\frac{1}{2}$. So if we divide into four equal parts and take 1 part then we write $\frac{1}{4}$.

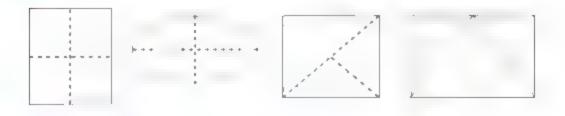


When we divide an object into four equal parts, we call one of these parts a quarter or one fourth and write $\frac{1}{4}$

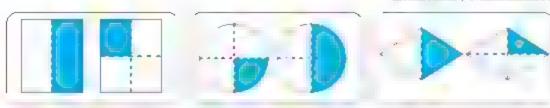
or one quarter

Numbers such as \frac{1}{2} and \frac{1}{4} are called fractions

Let us colour ¹/₄ part of each shape below.



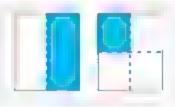
I $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ If four $\frac{1}{4}$ s are put together is formed



2 Tick (\) the correct answer based on the figure above)

 $\frac{1}{4}$ is greater equal/less than $\frac{1}{2}$ Two pieces of $\frac{1}{4}$ are greater equal less than $\frac{1}{2}$ Three pieces of $\frac{1}{4}$ are greater than equal to less than $\frac{1}{2}$

Meena compared the dark coloured parts of the figure on the right and said that 1/2 is smaller than 1/4 Is Meena's comparison correct? Why?



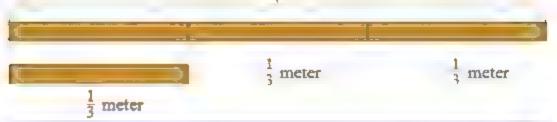
4 Let us draw two figures of equal shape as we desire and colour $\frac{1}{2}$ part of one and $\frac{1}{4}$ part of the other



How can we express in fractions?

1 meter long ribbon is divided into three equal parts.

1 meter



Each of these divided parts of the ribbon is called one-third of 1 meter and write 1

1. How long is the painted part? 1meter

meter

meter

(1)

1meter

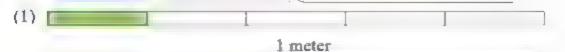
- (2)
- 2 Let us colour 1 part

2 of 3 equal pieces of 1 meter is called two-thirds of 1 meter. It is written as \(\frac{1}{2} \) meter.



meter is equivalent to 1 meter.

- 3 How long is the coloured part?



- (2)
 - 4 Let us colour.
- Colour ³/₅ part.
- (2) Colour part

Numbers like 3.5 and 7.8 are called fractions Here 3 and 7 are called numerators and 5 and 8 are called denominators.

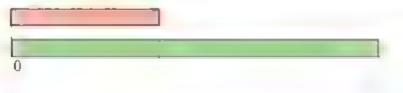
fraction numerator denominator

- 5 Indicate numerator by __ and denominator by . For example-

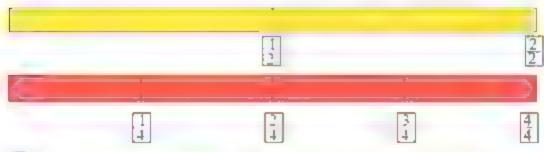
- (1) $\frac{4}{5}$ (2) $\frac{1}{7}$ (3) $\frac{5}{8}$ (4) $\frac{7}{9}$
- 6 Write a fraction whose denominator is 9 and numerator is 5.
- 7 Answer the questions related to the figure below



- (1) Write the fraction in the blank box.
- (2) Where are the 5 pieces of $\frac{1}{5}$ in the above figure?
- (3) Which is longer 3 meter or 3 meter?
- 8 Let us write the coloured part of the figure below as a fraction



9 Let us compare the following fractions





1 and 2 are the same! Again 3 and 4 are the same and equal to 1



1 Let us examine the figure carefully and discuss our findings





Which fractions equal to $\frac{1}{2}$?

Which fractions in the figure are of equal value?



Fractions that have equal value are called equivalent fractions.

The equivalent fractions of $\frac{1}{2}$ are $\frac{2}{4}$, $\frac{3}{6}$, $\frac{4}{8}$, $\frac{5}{10}$

2 Let us find the equivalent fraction of \(\frac{1}{3} \)



If we multiply the numerator and denominator by 2. we get $\frac{1 \times 2}{2 \times 2} = \frac{2}{1}$

$$\frac{1\times3}{2\times3} = \frac{1}{2}$$

$$\frac{1 \times 7}{2 \times 7} = \frac{1}{8}$$

$$\frac{1 \times 3}{2 \times 3} = \boxed{\qquad} \frac{1 \times \boxed{}}{2 \times \boxed{}} = \frac{4}{8} \qquad \frac{1 \times 5}{2 \times 5} = \boxed{}$$

When the numerator and denominator of a fraction are multiplied by the same number, the resulting fraction is equivalent to the previous fraction.



How do we find equivalent fractions easily?



Let us investigate

Let us check with two equivalent fractions $\frac{1}{3}$ and $\frac{2}{4}$

$$\frac{1}{2} \longrightarrow \frac{2 \times 2 = 4}{1 \times 4 = 4}$$

If the cross products of numerator and denominator of two fractions are the same, then the two fractions will be equivalent. Let us check the following pair of fractions and find equivalent fractions

I et us find the equivalent fraction of $\frac{1}{3}$ and $\frac{1}{4}$.

3 Let us write equivalent fractions in the blanks

Fraction	Equivalent Fraction	Equivalent Fraction	Equivalent Fraction	Fquivalent Fraction	Equivalent Fraction	Equit alent Fraction	Equivalent Frac-
2.3	6	6 9					
3 4							
3 5							
1/6							

4 Let us find whether the following pairs of fractions are equivalent or not and tick

Fraction	Calculation	Equivalent Fraction	Not equivalent Fraction
3 9 4 12	4 × 9 = 36 3 × 12 = 36	~	
2 5, 10			
4 8 12			
3 9 5, 10			

12 Let us compare the following pair of fractions and write small-large using < or >

(a)
$$\frac{1}{3}$$

(c)
$$\frac{7}{8}$$

(a)
$$\frac{1}{3}$$
 $\frac{2}{3}$ (b) $\frac{2}{5}$ $\frac{4}{5}$ (c) $\frac{7}{8}$ $\frac{5}{8}$ (d) 1 $\frac{6}{7}$

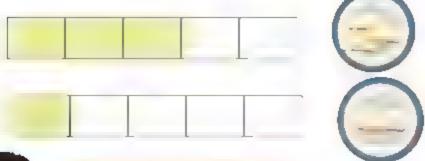
Here the denominators of each pair of fractions are the same. So we will compare the numerators only. We know how to compare numbers



Addition of fractions



Riya got $\frac{3}{5}$ and his brother, Rafi got $\frac{1}{5}$ of a bread. How many portions of bread did they get together?





How do we add $\frac{3}{5} - \frac{1}{5}$?

How many $\frac{1}{5}$ portions are there in $\frac{1}{5}$ and $\frac{3}{5}$?





There are one and three $\frac{1}{5}$ portions

$$\frac{3}{5} - \frac{1}{5} = \frac{\Box}{\Box}$$

Zahid takes 2.5 hours to complete his math homework and ³/₅ hours to complete his English homework. How many hours does he take to do the homework of these two subjects?



The calculation is simple. We will calculate 2 and 3 of $\frac{1}{5}$ as before

$$\frac{2}{5} + \frac{3}{5} = \frac{3}{5} = 1$$

1 hour

When we add fractions with common denominator, the denominator of the sum is the common denominator of the fractions and the numerator is the sum of the numerators of the fractions.





1 Let us add

(1)
$$\frac{1}{3} + \frac{2}{3}$$

(1)
$$\frac{1}{3} + \frac{2}{3}$$
 (2) $\frac{1}{4} - \frac{2}{4}$ (3) $\frac{2}{5} - \frac{2}{5}$ (4) $\frac{3}{4} - \frac{1}{4}$

$$(4)$$
 $\frac{3}{4} - \frac{1}{4}$

$$(5)$$
 $\frac{3}{7} + \frac{1}{7}$

$$(6)$$
 $\frac{1}{5} - \frac{1}{5}$

$$(7) \quad \frac{5}{6} \quad - \quad \frac{1}{6}$$

(5)
$$\frac{3}{7} + \frac{1}{7}$$
 (6) $\frac{1}{5} - \frac{4}{5}$ (7) $\frac{5}{6} - \frac{1}{6}$ (8) $\frac{3}{8} + \frac{5}{8}$

(9)
$$\frac{5}{7} \div \frac{2}{7}$$

$$(10) \frac{1}{9} - \frac{8}{9}$$

$$(11) \frac{4}{8} - \frac{3}{8}$$

(9)
$$\frac{5}{7} + \frac{2}{7}$$
 (10) $\frac{1}{9} + \frac{8}{9}$ (11) $\frac{4}{8} - \frac{3}{8}$ (12) $\frac{4}{9} - \frac{3}{9}$

3 ½ portion of a bamboo is red and ¾ portions are green. How many portions are coloured?

We have coloured

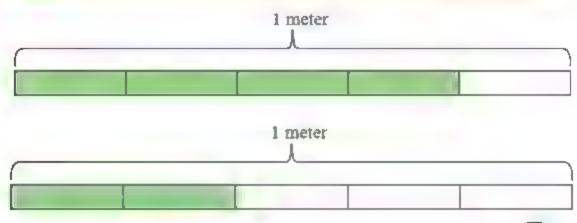
$$\frac{1}{7}$$
 portion $=\frac{3}{7}$ portion

- 2 Riya bought ½ meter and Lia ¾ meter of coloured ribbon from a shop How many meters of ribbon did they buy together?
- Rafi eats $\frac{3}{8}$ portions of a cake and Nidhi eats $\frac{1}{8}$ portions How many portions do they eat together?
- 4 Reza's house is \(\frac{5}{10}\) kilometer west from the school and Mina's house is $\frac{3}{10}$ kilometer east. How far is Mina's house from Raza's house?

Subtraction of fractions



Reza has \frac{1}{5} meters of ribbon. If he gives \frac{2}{5} meters of ribbon to Mma, how many meters of ribbon will she have?



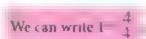
How many \$ portions are there in \$\frac{4}{2}\$ and \$\frac{4}{2}\$.





In $\frac{4}{5}$ we have 4 and in $\frac{2}{5}$, 2 of $\frac{1}{5}$ portions.

How have we subtracted $1 = \frac{3}{4} = \frac{1}{4}$ We can write $1 = \frac{4}{4}$

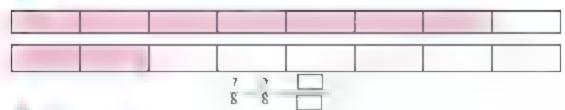




So we get
$$\frac{4}{4} - \frac{3}{4} - \frac{1}{4}$$

In subtraction of fractions with common denominator, the denominator of the difference is the common denominator of the two fractions, and the numerator is obtained by subtracting the numerator of minuend from the numerator of subtrahend.

2 How is subtracted? $\frac{7}{8} = \frac{1}{8}$



Let us subtract

- (1) $1 \frac{1}{2}$

- (5) \$ 3
- (6) $\frac{3}{6} \frac{3}{6}$ (7) $\frac{4}{7} \frac{3}{7}$ (8) $1 \frac{3}{8}$

- (9) $\frac{7}{9} \frac{2}{9}$ (10) $\frac{7}{8} \frac{3}{8}$ (11) $1 \frac{4}{9}$ (12) $\frac{8}{9} \frac{2}{9}$
- Sifat has planted flower seedlings in § portions of the garden. Moni has also planted flower seedlings in 4 portions of the garden. Who has planted more flower seedlings and how many portions more?

Both fractions have the same denominator. So comparing the numerator we get that Sifat has planted flower seedlings in more portions.

Mathematical sentence Sifat has planted flower seedlings in 📇 more portions.

- 2 Ria has $\frac{4}{5}$ liters of juice and Hiya has $\frac{3}{5}$ liters of juice. How many more liters of juice does Ria have?
- 3 Rom eats $\frac{3}{7}$ portions of a cake and Mom eats $\frac{5}{7}$ portions. How many por tions does Moni eat more than Rong?
- 4 Nidhi took 6 portions of the 1 meter ribbon and Dia took ≥ portions. Who took more ribbons and how many portions more?

Let us do

1		Let us	tick (N) the	соптес	t answe	T
	1	377610	-6-5	C_ 11			1

(1) Which of the following indicates the empty part of the ımage? b) $\frac{5}{8}$ c) $\frac{6}{8}$ d) $\frac{7}{8}$





(2) Which one of the following is correct?

a)
$$\frac{5}{9} > \frac{2}{9}$$

a) $\frac{3}{9} > \frac{2}{9}$ b) $\frac{5}{9} < \frac{2}{9}$ c) $\frac{2}{9} > \frac{4}{9}$ d) $\frac{5}{9} = \frac{2}{9}$

(3) $\frac{8}{9}$ $\left[\frac{3}{9} \right] = \frac{5}{9}$. Which one of the following symbols will fit in the blank box?

$$a) +$$

b) —

c) x

d) +

(4) Ria ate 4 of a cake How much of the cake does Raisa need to eat to be equivalent to Ria?

b) $\frac{2}{6}$ c) $\frac{1}{8}$ d) $\frac{2}{10}$

(5) Which one of the following fractions are equivalent to ³/₄?

a) 3, 6, 9 b) 6, 9, 12 c) 6, 8, 12 d) 6, 9, 15 8 12 16 8 12 16 8 12 16

(6) Which one of the following fractions is equal to 1°

b) $\frac{3}{5}$ c) $\frac{3}{4}$ d) $\frac{3}{3}$

(7) From the school, Rashed's house is $\frac{3}{8}$ km west and Mili's house is $\frac{2}{8}$ km east. How far is Milli's house from Rashed's?

- a) g km
- b) $\frac{1}{8}$ km c) $\frac{3}{8}$ km

d) ∮ km

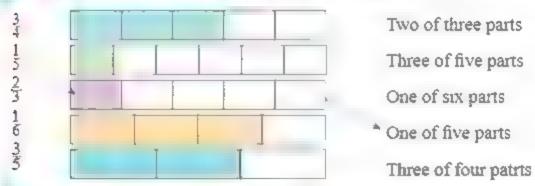
(8) Russell drank $\frac{1}{5}$ liters of water and Rhea drank $\frac{3}{5}$ liters of water. How much more water did Russell drink than Riya?

- a) $\frac{1}{5}$ liter b) $\frac{3}{5}$ liter c) $\frac{2}{5}$ liter d) $\frac{1}{5}$ liter

Let us match the right column with the left column by drawing lines.

	<u>6</u>
together	Equivalent fractions
	1
CT CT	4-1

- 3 The numerators and denominators of some fractions are given below.
 Write the fractions.
 - (1) numerator 7 denominator 13
 - (2) denominator 11 numerator 7
 - (2) numerator 9 denominator 17
 - (4) denominator 12 numerator 5
- 4 Let us look at the figure and match by drawing lines.



5 Let us write 3 equivalent fractions for the following fractions.

Fraction	Equivalent Fraction	Equivalent Fraction	Equivalent Fraction
1/2			
3 4			
3		1	
5 6			

6 Let us check whether the following pairs of fractions are equivalent or not. Write equivalent or not equivalent in the blank boxes

$\frac{2}{5}$, $\frac{3}{10}$	1/4, 4/4 16
2, 6	3, 6
7, 21	8, 24
3, <u>5</u>	1, 3
8, <u>1</u> 2	7, 21

7 Let us add.

(1)
$$\frac{1}{3} - \frac{2}{3}$$
 (2) $\frac{3}{4} - \frac{1}{4}$

(2)
$$\frac{3}{4} - \frac{1}{4}$$

$$(3)$$
 $\frac{3}{5} + \frac{1}{5}$

(3)
$$\frac{3}{5} + \frac{1}{5}$$
 (4) $\frac{1}{4} + \frac{1}{4}$

$$(5)$$
 $\frac{3}{5} - \frac{2}{5}$

(6)
$$\frac{1}{6} - \frac{5}{6}$$

$$(7) \quad \frac{5}{7} - \frac{1}{7}$$

(5)
$$\frac{3}{5} - \frac{2}{5}$$
 (6) $\frac{1}{6} - \frac{5}{6}$ (7) $\frac{5}{7} - \frac{1}{7}$ (8) $\frac{2}{8} + \frac{5}{8}$

$$(9) \quad \frac{4}{7} - \frac{3}{7}$$

$$(9) \quad \frac{4}{7} - \frac{3}{7} \qquad (10) \quad \frac{1}{9} - \frac{5}{9}$$

$$(11) \frac{5}{8} = \frac{3}{8}$$

$$(11) \ \frac{5}{8} - \frac{3}{8} \qquad (12) \ \frac{7}{9} + \frac{1}{9}$$

g · Let us subtract.

(1)
$$1 - \frac{1}{3}$$

$$(2)$$
 $\frac{5}{6} - \frac{1}{6}$

(1)
$$1 - \frac{1}{3}$$
 (2) $\frac{5}{6} - \frac{1}{6}$ (3) $\frac{3}{5} - \frac{1}{5}$ (4) $1 - \frac{1}{7}$

(4)
$$1 - \frac{1}{7}$$

$$(5) \quad \frac{3}{6} - \frac{2}{6}$$

(6)
$$\frac{5}{7} - \frac{3}{7}$$

(7)
$$\frac{5}{8} - \frac{2}{8}$$

(5)
$$\frac{3}{6} - \frac{2}{6}$$
 (6) $\frac{5}{7} - \frac{3}{7}$ (7) $\frac{5}{8} - \frac{2}{8}$ (8) $1 - \frac{5}{8}$

(9)
$$\frac{8}{9} - \frac{3}{9}$$
 (10) $\frac{7}{8} - \frac{1}{8}$ (11) $1 - \frac{7}{9}$

(10)
$$\frac{7}{8} - \frac{1}{8}$$

(11)
$$1 - \frac{7}{9}$$

(12)
$$\frac{7}{9} = \frac{2}{9}$$

- 9 Mom's house is 10 kilometers to the north from the school and Fahim's house is $\frac{1}{10}$ kilometers to the south. What is the distance of Moni's house from Fahim's house?
- 10 The distance of Sami's house from the school is \(\frac{5}{7}\) kilometers and the distance of Mina's house is $\frac{3}{7}$ kilometers. Whose house is more distant from school and how many kilometers?
- 11 4 portions of a cake is given to Reza and 5 to Rom. How many more portions of cake was given to Reza than Ronio

Bangladeshi Currency



What are the pictures of?













I have no idea what these pictures are But these look like coins in the Math book of class two

I think these are pictures of paisa. I have heard that paisa was used to buy things in the past



Let us find out what paisas are there in the picture below
 Equivalence of notes to metallic coins

Metallic coins	Value	Paper notes
	1 taka	
	2 taka	Et in
	5 taka	7 7 5 5



What is the relation between paisa and taka?

Let us see their relation.







together









together



50 paisa - 50 paisa = 1 taka



100 paisa and 1 taka are of equal value. Do you know how to read and write taka and paisa in numbers?

Yes I know, like if and are together.

you have to read 20 taka fifty paisa and write 20 taka
50 paisa.



Let us read the following currency and write in numbers









Here, 100 taka + 50 taka - 5 taka - 155 taka and 5 paisa + 10 paisa 15 paisa So, we will write 155 taka 15 paisa.

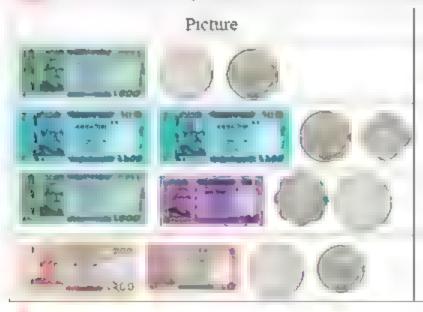


500 taka + 20 taka = 520 taka

50 paisa + 50 paisa + 25 paisa = 125 paisa

We have learnt, 100 paisa - 1 taka, then 125 paisa - 1 taka 25 paisa. We will write (520±1) taka 25 paisa so, we will write 521 taka 25 paisa.

2 Let us look at the picture and write in the numbers



in numbers

500 taka 75 paisa

3 Read and write in numbers

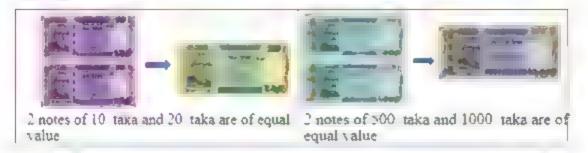
In words	in numbers
a) Twelve taka forty five paisa	12 taka 45 paisa
b) Five hundred taka sixty two paisa	
c) Seven hundred twenty five taka seventy five paisa	
d) One thousand two hundred taka fifty paisa	
e) Nine hundred fifty five taka thirty paisa	
f) Three thousand eight hundred twenty five taka	



If there are 2 notes of 10 taka and 2 notes of 500 taka, what is the total amount of taka?

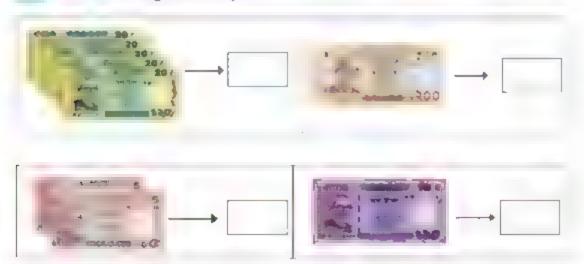


The calculation can be done here as we have done with numbers



The amount of money will be 1000 - 20 = 1020 taka

1 Let us exchange currency



2 Let us solve

- (1) 20 notes of 3 taka taka (7) 3 notes of 100 taka taka
 (2) 4 notes of 30 taka taka (8) 3 notes of 300 taka taka
 (3) 10 notes of 20 taka taka (9) notes of 10 taka 200 taka
 (4) 3 notes of 10 taka taka (10) notes of 100 taka 1000 taka
- (4) notes of 10 taka taka (10) notes of 100 taka 1000 taka (11) ootes of 1 taka 100 taka
- (6) 50 notes of 2 taka taka (13) notes of 20 taka + 200 taka

Let us calculate



(Te

We will calculate like summation

Total 70 paisa



10 + 25 - 25 - 50 - 110

100 paisa 1 taka What would be the answer?



Total 1 taka 10 paisa



Let us circle the notes and coins to make the amount money in the box. (One is shown)







Let us calculate

- (1) 5 paisa + 5 paisa 10 paisa 25 paisa 3 taka
- (2) 1 paisa + 10 paisa 50 paisa 2 taka + 5 taka
- (3) 20 taka + 25 paisa + 50 paisa 30 taka
 - (4) 5 paisa + 25 paisa · 10 taka · 2 taka + 10 paisa

Bakul bought a book for 65 taka 75 paisa. How many ways can she pay using 20 taka, 10 taka, 5 taka, 2 taka and 5 paisa, 10 paisa, 25 paisa?



five taka 2, one taka 5, one taka 10, two taka 20 and three of 25 paisa can be paid.

Payment can also be made in other ways



The	taka				paisa		
price	2 taka	5 taka	10 taka	20 taka	5 paisa	10 paisa	25 paisa
65 taka 75 paisa							



Let us add

150 taka 65 paisa + 67 taka 83 paisa

150 taka 65 paisa + 67 taka 83 paisa 218 taka 48 paisa

148 païsa - 1 taka 48 païsa So we will add 1 taka to 317 taka



Total 218 taka 48 paisa

- 2 2 Let us add
 - (1) 35 taka 55 paisa + 28 taka 34 paisa
 - (2) 77 taka 49 paisa + 42 taka 85 paisa
 - (3) 259 taka 75 paisa + 137 taka 65 paisa
 - (4) 2155 taka 35 Paisa 785 taka 90 Paisa
 - (5) 4740 taka 55 Paisa 389 taka 65 Paisa

3 Rafi has 225 taka 25 paisa. If he buys a ball costing 105 taka 75 paisa, how much money will be left with him?

225 taka 25 paisa - 105 taka 75 paisa ..., taka paisa

In this case we cannot subtract 75 from 35. Then how to calculate?





I will convert I taka to paisa like subtraction. We know that I taka is equivalent to 100 paisa.

Paisa If I taka is converted to paisa, then the calculation will be

125 - 75 = 50

taka 1 taka was converted in paisa. So the calculation will be

225 - 1 = 224

224 - 105 = 119

gets back 119 taka 50 paisa

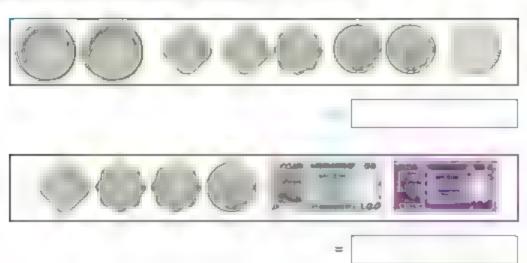
3 Let us subtract

- (1) 95 taka 60 Paisa 42 taka 20 Paisa
- (2) 360 taka 80 paisa 215 taka 35 paisa
- (3) 755 taka 45 paisa 345 taka 20 paisa
- (4) 475 taka 15 Paisa 99 taka 75 Paisa
- (5) 80 taka 37 taka 50 paisa
- (6) 824 taka 45 paisa 307 taka 75 paisa
- (7) 900 taka 279 taka 55 Paisa



Let us do

How much taka and paisa are there in the box?



- Let us do the following calculations
- (a) 45 taka 75 paisa + 35 taka 80 paisa =
- (b) 37 taka 20 paisa 21 taka 70 paisa =
- (c) 69 taka 35 paisa÷ 37 taka 77 paisa
 - ... taka paisa
- (e) 78 taka 50 paisa - 42 taka 75 paisa
 - . .. taka paisa

- (d) 89 taka 42 paisa
 - 45 taka 89 paisa
- takapaisa
- (f) 200 taka 20 paisa
 - 10 taka 40 paisa
 - . . taka . . . paisa
- Usha had 65 taka 75 paisa. His mother gave her 82 taka 75 paisa to buy the notebook. How much money has Usha now?
- Jubayer bought a toy for 78 taka 25 paisa. If he gives 100 taka to the shopkeeper, how much money will the shopkeeper give him back?

- S Two notebooks cost 80 taka and one pen costs 25 taka 75 paisa. Arisha gave a note of 200 taka to the shopkeeper to buy these items. How much money will the shopkeeper return to Arisha?
- Simul bought rice for 85 taka 75 paisa and vegetables for 45 taka 55 paisa. How much money does he spend in total?
- With had 135 taka 25 paisa. Her father gave him 65 taka 75 paisa. How much money did he have?
- Tamanna bought a packet of biscuits for 35 taka 75 paisa. She gave a 50 taka note to the shopkeeper. How much money did the shopkeeper return to Tamanna?
- Lily went to the shop with 300 taka. He bought a pair of shoes for 120 taka 65 paisa. How much money did he have?
- David has 542 taka "8 paisa. His uncle gave him another 300 taka 55 paisa more. How much money has David now?
- Make a story with the mathematical sentence

 128 taka 50 Paisa 77 taka 25 Paisa =taka . . . paisa
- Riya went to the shop with 100 taka. She bought a book for 69 taka 75 paisa. How much money did she have?
- Ratan bought a packet of Chanachur for 45 taka 50 paisa. He gave a 100 taka note to the shopkeeper. How much money did the shopkeeper return to Ratan?

Project: Last year, students of class Three deposited some money from their tiffin money in the clay bank and spent it on the development of the school You can also save money in the clay bank and do some good work together with the help of teacher.



Measurement

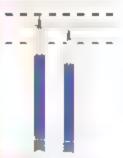
Length



How will we measure the difference in length of two pencils of almost the same length?



The length of my pencil seems to be about the same as yours. The difference in their length is very small. As we have learnt in grade centimeters are used to measure the length of small objects. But the difference in length between these two pencils appears to be less than I centimeter.



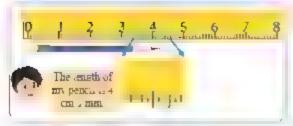
Is there any unit smaller than centimeter?

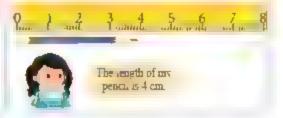


We use millimeter (mm) to measure the length of an object less than I cm and this length is measured by centimeter scale.



l millimeter or 1 mm







Oh! My pencil is 3mm bigger than your pencil

I Let us guess the length of books, notebooks, geometry boxes, tiffin boxes etc. in millimeter. Then measure their length in millimeter by using a scale and complete the table below. Let us check how accurate the approximate length is

Object	Approximate length	Actual length	
book			
notebooks			

Unit of length

1 meter = 100 centimeters 1 centimeter = 10 millimeters



While going my village. I heard the name of other unit apart from these units. But I couldn't recall its name.

It is kilometer (km., We use this unit to measure large lengths like distances



1 kilometer (km) 1000 meters (m)

Unit of length

1 kilometer (km) = 1000 meters (m)

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) 10 millimeters (mm)

2 The story of Nipa's visit to her grandparents' house during the Eid holidays is shown in the picture. Let us find out the answers to the following questions.



(1) The distance between Nipa's house and the park is 7 km. Express the distance in meters?



As we know, 1 kilometer = 1000 meters

 $7 \text{ kulometers} = 7 \times 1000 \text{ meters}$

= 7000 meters

7 km = 7000 meters

- (2) What is the distance between the park and the post office in meters?
- (3) What is the distance of grandparents' house from Nipa's house?
- 3 The length of Rima's classroom is 16 meters. Express the length of the classroom in centimeters and millimeters.



We know, 1 meter 100 centimeters

16 meters 16 x 100 centimeters 1600 centimeters

The length is 1600 centimeters

1 centimeter 10 millimeters

1 centimeter 10 millimeters



1600 centimeters 1600 x 10 millimeters = 16000 millimeters

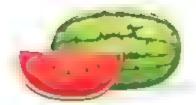
I Let us divide into several groups and measure the length of different

The length is 16000 millimeters.

Weight



How can we weigh heavy things like watermelon?





The fruit is very big and heavy. How can we weigh it?

We can use a weighing machine. In grade two we have learnt that scales or digital scales are used to measure weight







Analog scales

digital scales

When we weigh something heavy, we use kilogram 1 kilogram is equivalent to 1000 grams.

Unit of weight

1 kilogram (kg) = 1000 grams

1 Let's fill a bag with 1 kg of sand and try to understand how it weighs



I think the bag is filled with 1 kg of sand



Let us weigh with a weighing scale



2 Let us make different shapes by using clay mud (example-ball, brick, car, bottle etc.) and measure the weight by weighing scale after guessing.



Wow! All of their weight is equal.

Even if the size of the object varies, its weight remains the same



3 Let us look at the following weighing machines and write the weight of the fruits in the blanks. Let us say which fruits weigh the most



To measure weight, we use different types of standard weights



4 Let us find the standard weights to weigh a 650 grams object.



I have started with a 500 grams weight which is the closest to 650 grams





I have weighed like this.



5 Let us think how to weigh 3 kilogram 220 grams with standard weights.



1 kilogram · 3 200 gram · 1 20 gram · 1

1 kilogram < 3 200 gram = 2 10 gram < 2



Let us think about more ways of weighing.



6 Let us express 8 kilograms 447 grams in grams



1 kilogram 1000 grams

8 kilograms 447 grams 8 x 1000 grams - 447 grams 8000 grams + 447 grams - 8447 grams

8 kılograms 447 grams = 8447 grams

2 Let us tell the numbers that fits in the blanks and write them.
(1) 6 kılograms = grams
(2) 7 kilograms 33 grams = grams
(3) 4 kilograms 670 grams = grams
(4) 2000 grams = kılogram
3. In what different ways can an object of 1 kg 620 grams be weighed using one 1 kg, two 500 grams, three 200 grams and six 20 grams standard weights?
4 A packet of salt weighs 1 kilogram 300 grams. Which standard weigh
are the least needed to weigh it?

5 Let us guess the weight of a book, notebook. dictionary, geometry box, etc. Now complete the table below by measuring their actual weight using a weighing machine. Let's check how correct the assumptions are.

Object	assumed	actual weight	
Object .	weight		

Time



What is the relation between hours, minutes and seconds?

minute hand



In grade 2, we have learnt that there are 3 hands in a clock. The shortest hand in dicates hours, the middle hand indicates minutes and the longest hand indicates seconds. In a digital clock, the two digits at the left side indicate hours and the two digits at the right side indicate minutes.

units of time' second, minute, hour

Relation between units of time

60 seconds = 1 minute 60 minutes = 1 hour

hour hand

1 Let us find what time it is.



- The numbers from 1 to 12 indicate the hours.
- A clock has 60 small marks
- 1 hour = 60 minutes. So, each mark indicates 1 minute



There are 5 marks between every two consecutive numbers

The minute hand indicates 33 minutes. So the time is 2 hours 33 minutes or 2.33



2 Let us look at the clock and set the time



8 30 in the morning or



2 45 in the afternoon

half past eight in the morning quarter to three in the afternoon



10 15 at night or quarter past ten at night



in the morning or quarter to 1 in the afternoon



in the evening or quarter past un the evening



in the afternoon or half past in the afternoon

3 Let us write the time in the empty space

What time is it now?

minutes? Draw in the picture

What will be the time after 30. What was the time 45 minutes ago? Draw in the picture







Let us tell the time.







- 5 Let us tick the correct answer
- (1) Hour hand is shorter longer than the minute hand
- (2) A full rotation of minute hand is equal to 30 minutes 60 minutes
- (3) A full rotation of hour hand is equal to 1 hour 12 hours
- (4) Clock strikes at 12 onetime two times in a day
- (5) The hour hand strikes at 5 in the morning afternoon morning and afternoon
- (6) The hour hand completely rotates 10 times 12 times 2 times in a day
- (7) The minute hand completely rotates 10 times 12 times 24 times in a day
- (8) There are 12 hours 24 hours in a day.
- (9) I hour is equal to 30 minutes 60 minutes
- 6 Let us find out how many seconds are in 5 minutes.



As we know 1 minute = 60 seconds

5 minutes = 60 seconds X 5

seconds

5 minutes = seconds

7 Deepu starts 3 20 for the book fair and reaches after 30 minutes. Let us find out the time when Dipu reached at the book fair.



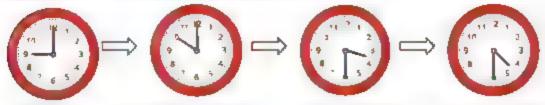
3.20 30 minutes



1 It takes 20 minutes to go to school from Mita's house. If Mita reached school at 8 25, what time did she leave home?

20 minutes 8 25

8 Sami went to visit his uncle's house



Left home

Reached uncle's house

Left uncle's house

Reached home

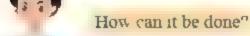


How long did Sami take to reach uncle s house after leaving home?

He left home at 9 00 and arm ed at 10 00. So he arm ed after 1 hour



- (1) When did Sami return home?
- (2) How long was Sami at his uncle's house?
- 2 Poly studies for 2 hours 25 minutes in the morning and 2 hours 45 minutes at night. How much time does he study every day?
- Let us act focusing on the awareness and importance of proper use of time with the help of the teacher.



We can be divided into two groups. One group can pretend to be aware of the use of time and the other group to be un aware of the use of time. We can highlight the benefits due to proper use of time and the bad effects due to ignorance



10 Let us make a 'daily routine' of doing the work on time (eg waking up. sit to study, eating going to bed, etc.). Let us discuss why we need it

Let us do

- Let us tick (\) the correct answer.
- (1) Which unit is convenient to use to measure the nip of a pen?
 - a) Kılometer b) Meter
- c) Centimeter
- d) Millimeter
- (2) Which unit is commonly used to measure its length?
 - a) Meter
- b) Centimeter c) Millimeter
- d) Kilometer
- (3) What is the approximate length of the following pencil without using a ruler scale?
 - a. 5 cm
- b. 15 cm
- c. 50 cm
- d. 1 m

- (4) Which one of the following is correct?
 - a) 1 kilogram = 10 grams
- b) 1 kilogram = 100 grams
- c) 1 kilogram = 1000 grams c) 1 kilogram = 10000 grams
- (5) Which one of the following standard weights will be required to measure 3 kg 220 g?

 - a) 1 kg + 2 kg + 200 g + 20 g b) 3 kg 200 g 10 g + 10 g
 - c) 2 kg = 1 kg + 220 g
- d) $3 \text{ kg} = 200 \text{ g} \div 20 \text{ g}$
- (6) The length of Rima's classroom is 20 m. To measure this length with a 25 cm ruler scale, how many times will the ruler scale be placed from one end of the classroom to the other end?
 - a) 40 times
- b) 80 times
- c) 160 times
- d) 320 times

(7) How many minutes are left to 6 o'clock?



a) 5 minutes b) 25 minutes	c) 35 minutes	d) 55 minutes
(8) The distance from walks 500 meters grandfather's hou	s at every 10 minute	er grandfather's hous es, how long will sho	*
a) 30 minutes b	o) 50 minutes	c) 60 minutes	d) 70 minutes
(9) It started raining When did the rain		t rained for 2 hours	s and 45 minutes.
a) 3 15 pm. t) 3 30 p.m.	c) 4·45 p m.	d) 5 15 p m.
(10) How many time	es does the minute	hand of a clock ro	tate in a day?
a) 10 t) 12	c) 24	d) 1440
2 Fill in the blank	s.		
(1) 4 centimeter	s = millimet	ers (2) 5 kilograms	= grams
(3) 9000 grams	= kılograms	(4) 300 centime	eters = meter
3 Express in meter	rs		
(1) 2 kilometers	(2) 5 kilometers 320	meters
(3) 7 kılometers	(4) 7 kılometers 570	meters
4 Let us express a	n millimeters.		
(1) 3 meters 10	rentimeters	(2) 11 m	ieters
(3) 4 meters 23	centimeters 3 mili	meters	
5 A bag of potatoes	weighs 3 kg 200 gr	ams. Which minimum	n standard weights

do we need to weigh it?

6 Write the time in the blank space.



- 7 How many seconds are equal to 13 minutes?
- 8 Mizan walks for 1 hour 30 minutes in the morning and 2 hours 10 minutes in the afternoon every day How long does he walk every day?
- 9 Rafiq went to his friend's house at 10 20 and returned at 12 50 How long was he out of the house?
- 10 It takes Kavya 35 minutes to go home from school. If he reaches home at 4.55, what time does he leave his school?
- 11 The rain started at 11:00 am and stopped at 12:30 pm. How long did it rain?

Geometry

Points, lines and planes



What are points, lines and planes?



In the clear sky at meht the stars look like many small dots. Where else do we see such dots?







There are small dots in the dice of ludo game. I have also seen dots in the digital clock.



We can easily draw dots with a pencil tip



We call these dots points.



Points have no length, width or height. It has only position.

1 I et us draw some dots as we wish and draw a figure by joining those dots.



I have drawn 5 dots and have joined them to draw a star





By placing the scale on the two points and joining them with a pencil, we get the following figure.





Where do we see such a line?





I have seen lines like this in playgrounds and highways





What do we call the outer part of a brick?



We call it surface Specifically in this case, we call it flat surface or plane.

All sides of a brick are planes.





How is the surface of a ball?



Its surface is not flat It is curve



We call it curved surface.

2 Let us take a page and find out points, lines and planes from it.



The surface of the page is flat. The side of the page is a line. The place where two sides meet (vertex) is a point.



3 Let us find the surfaces of the following objects and arrange them separately



Plane	Curved surface	Both	
			Every surface is plane
		à	It has a curved surface.
		广	It has both flat and curve surfaces.

1 Let us discuss with two friends to find points, lines, planes and curved surfaces from the things around us (eg. pencils, books, tables, etc.).

Angle



What is an angle and how can we find different types of angles?







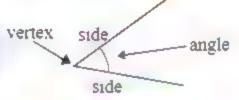


There seems to have similarity among the pictures. But I just can't figure it out

In every picture there is an angle



The shape formed by meeting of vertex two lines at a point (the vertex) is called an angle.



1 Let us find out if there are any angles in the adjacent picture.





I have found these angles.





I have found these angles



Where else do we see angles?

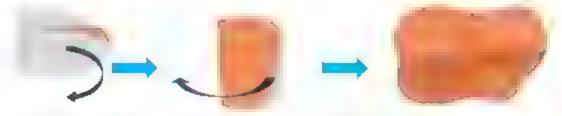


2 I et us think about the various types of angles

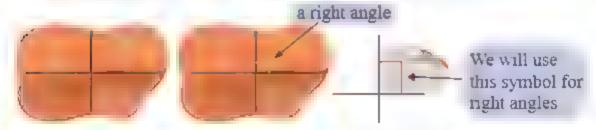
Take a paper of any shape and fold it in the middle Fold the folded paper crosswise again (as shown below).



The angle formed at the end of the fold is a right angle. Now open the fold.



Let us draw lines along the folds. 4 angles will be formed at the meeting point of the two lines. Each of them is a right angle.

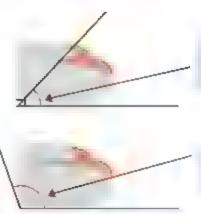


We will fold and place the two right angles side by side (as shown below)

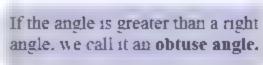


The angle formed by two right angles together is a straight angle.





If the angle is less than a right angle, we call it an acute angle



3 Let us make angles with two sticks and demonstrate to the class.

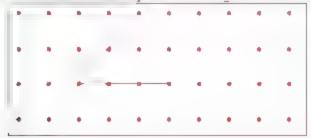


I have made an acute angle and an obtuse angle

I have made an acute angle, a right angle and an obtuse angle.



4 Let us draw different types of angles on the dot paper below and mention their name. For example, acute angle, obtuse angle, right angle etc.



Let us draw right angles, acute angles, obtuse angles and right angles by using pencil and scale.

Quadrilaterals



What are the similarities and differences we find in these images?







We have learnt about quadrilateral shapes in grade? I think all the three figures are quadrilaterals shapes

All three figures have 4 stdes and 4 angles





A closed shape formed by 4 straight lines is called a quadrilateral.

1 What is the difference between these two quadrilaterals?



Let us notice their angles



A quadrilateral whose 4 angles are right angles is called a rectangle.

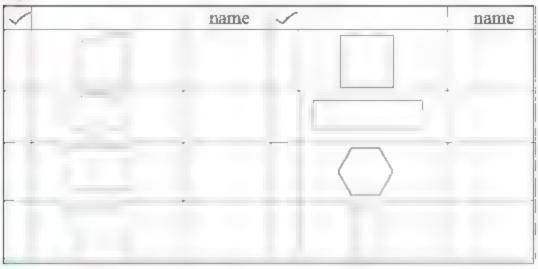
Let us fold the rectangle in different ways (as shown below) and notice the length of the sides.



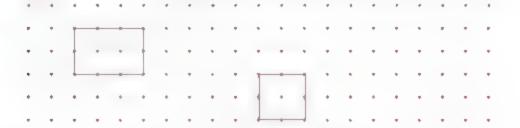
The opposite sides of a rectangle have the same length.

2 Let us find out the similarities and dissimilarities, between these two quadrilaterals I have found some similarities. The angles of two quadrilaterals are right angles and the opposite sides are equal in length. Both figures are rectangles I et us fold the second rectangle as shown below and notice the length of the sides. Length of each side is the same. A rectangle whose 4 sides are of equal length is called a square. All squares are rectangles. Let us discuss with classmates and find out which objects have rectangular or square surfaces and explain why. Let us circle the rectangles

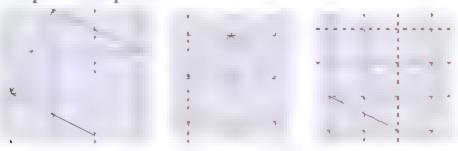
5 Let us tick (\(\sigma \)) on the left side of the figures which are quadrilaterals Write the name on the right side of the figures if they are rectangle or square.



6 Let us draw rectangles and squares on the dot paper below using the scale



- 1 Let us discuss with a friend to find out rectangles and squares from objects around the classroom (e.g. books, tables, boards, etc.)
- 2 In each of the following 4 figures, some parts of the square are given. Let us complete the squares.

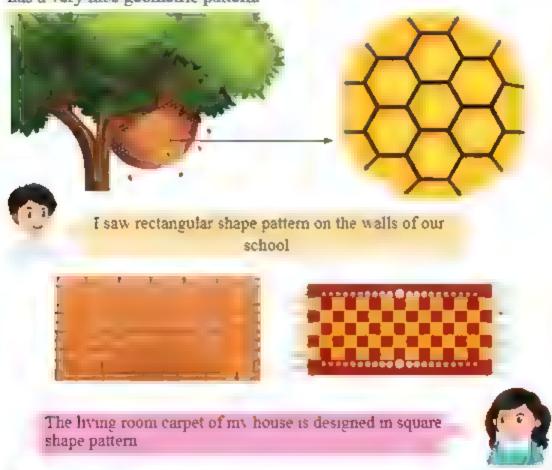


Geometric Pattern

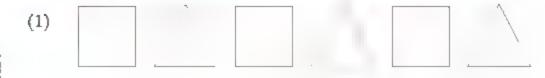


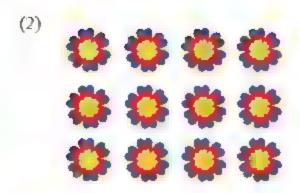
How do we look for patterns?

In grade 2. we learnt about patterns A pattern is an arrangement of something (such as numbers, designs or geometric shapes) that follows certain rules. As we look around us, we see a variety of patterns. Beehive has a very nice geometric pattern.













I found the pattern in figure 1. A square followed by a triangle has made a pattern and the pattern has been repeated.

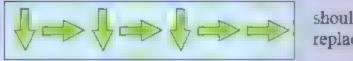
I have found the pattern in figure 2. Flower with red petals of smaller size are put on flower with blue petals of larger size and the smallest size flower with vellow petals are placed above them. This pattern has been repeated.





I cannot understand if there is a pattern in figure 3.

Figure 3 has not created any pattern. To arrange in a pattern

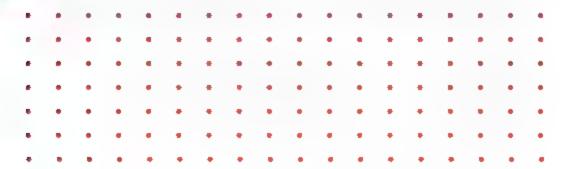


should be replaced by



2 I et us observe the figures below and complete the pattern. (1)(2)(3) 3 Let us create a pattern as we wish using the following geometric shapes I have made this pattern I have made this pattern What other new patterns can we create?

1 Let us create two different patterns as we wish using rectangles and squares.



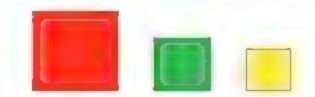
2 Let us use the following shapes in different ways to make a pattern as we wish



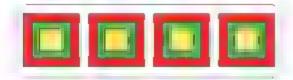
3 A program will be organized on the occasion of Boishakhi festival in our school. Let us cut colored paper and create a favorite pattern design to decorate the walls of the classroom. (Project Work)

A sample is shown.

Let us make a pattern by arranging 3 squares of different colors and sizes placing one on top of the other (large to small) as shown in the figure below



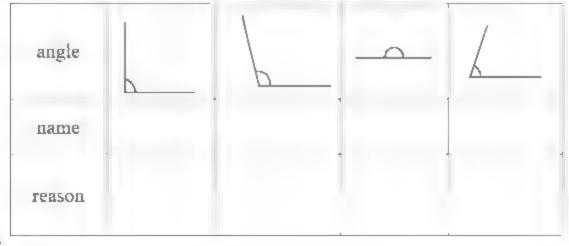
pattern design



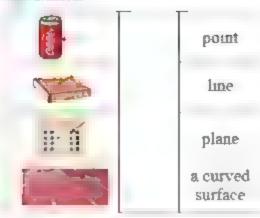
Let us do

1 Let us tack (\) the correct	rt answe	г	
(1) Which one of the following	can be u	ised as an example of a stra	ight line?
a) Surface of a sphere b) Ed		dge of a table	
c) A curved road	d) Si	rrface of a ball	
(2) A straight angle is formed	d by		
a) two right angles	b) tw	o acute angles	
c) two obtuse angles	d) or	ne right angle and one obt	use angle
(3) If a piece of paper is for following is obtained?	lded stra	nght in half twice, which	one of the
a) One right angle	b) Ty	vo acute angles	
c) Four right angles	d) O:	ne obtuse angle	
(4) What happens when two	straight	lines cross each other at r	ight angles?
a) An obtuse angle is formed		b) Four straight angles are formed	
c) Four right angles are formed		d) Two acute angles are formed	
(5) Which of the following c	ondition	s is mandatory for a recta	ngle?
a) Four equal sides		b) Four right angles	
c) Four sides of different	lengths	d) Only one angle is right angle	
(6) You have a robot that can around a rectangle, how position?		n at right angles. If you as ms will it take to return to	
a) 2 b) :	3	c) 4	d) 5
(7) Which one of the follows	ng 15 no	a pattern?	
a) Honeycomb pattern		b) Wall of square tiles	
c) Random dots		d) A chessboard	

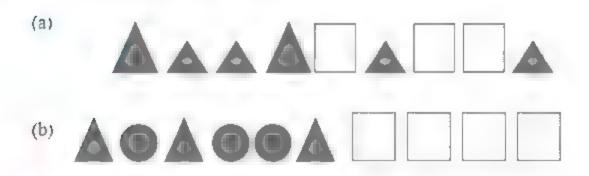
- (8) How will you find out whether an angle of a triangle is right angle or not?
 - a) Fold the triangle crosswise
- b) Measure with a protractor
- c) Draw another line through the triangle d) Guessing on the basis of the shape
- (9) Let us identify which sentence of the following is not correct.
 - a) The acute angle is smaller than the right angle.
 - b) The straight angle is equal to two right angles.
 - c) The obtuse angle is greater than two right angles
 - d) All squares are rectangle.
- 2 Answer in short.
- (1) Emma arranged her books in a V-shape on a shelf. If the angle formed by the book was less than 90 degrees, what type of angle did Emma make?
- (2) Using a protractor. Rafi has drawn a 120° angle. What type of angle has he drawn, and how many degrees is it greater than a right angle?
- (3) You fold a rectangular paper in equal half and then fold it again into quarters If the original rectangle is 12 cm long and 8 cm width, what will be the length and width of the folded rectangle after the second fold?
- (4) Write the names of the following angles and explain the reasons.



3 Match



- 4 When can a quadrilateral be called a square?
- 5 Complete the following patterns by filling in the blanks



- 6 Find out whether the following figures are patterns Tick (
 the correct answer and explain the reason.
 - (a) Yes No

 (b) (b) (c) (b) Yes No

Data Collection and Arrangement

Creating Tables



Students were taken to Shishu Park for a fun trip from school and they rode various rides. How many students rode on which ride?



Shishu Park

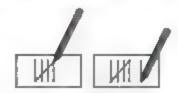


How can we calculate easily?

We need to make a list. In this case we can use tally marks



In grade 2, we have learnt to use tally marks to calculate. The tally marks is a quick way to keep track of numbers in groups of 5. One vertical line is drawn for each of the first 4 numbers, but 5th line is drawn across the prevoius 4 lines. Then the count continues by tally marks with a little gap.



- 1 Let us complete the table on the right side using the tally marks and find out how many students rode on which ride.
 - (1) Which ride had the largest number of students?
 - (2) Which ride had the least number of students?
 - (3) How many students rode on Nagordola and the merry-go-round?

Game	Tally marks	Number of students
Chil dren's toy train	MM	10
-	4 .	
Nagar-		
dola		
Flying		
plane		
Мепу-		
go-round	i	
	· ·	
Total		

- 1 The teacher randomly mentioned the names of some colours repeatedly in the class. Let us listen carefully and record the number of colours using tally marks and then fill in the table on the right side by expressing the tally marks as numbers.
 - (1) Which color did the teacher mention the most?
 - (2) How many times did the teacher mention about red and yellow colours?

Color	Tally marks	Number
Red		
Blue		
Yellow		
Green		

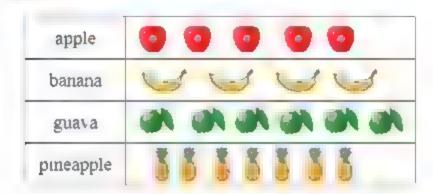
Pictograph



A fruit basket contains 5 apples, 4 bananas, 6 guavas and 7 pineapples. How to arrange them easily?



I have arranged it like this



I have arranged them like this



apple		00000
banana	5	0000
guava	46	00000
pineapple	3	

These are pictographs. In pictographs, pictures or symbols are used to represent data.

1 The number of grade 3 students participating in the annual sports competition is given in the table on the right side. Let us express it with the help of pictograph.

Name of the competition	Number of students
Race	50
Cock fighting	20
Dress as you like	15
Painting	35



Here, the number of students is very large

We can arrange the number of students into groups of 10



Race	0000
Cock fighting	• •
Dress as you like	• (
Painting	•••(

Here, 10 students have formed a group and the group is expressed by symbol

Each 10 students

Large amount of data can be easily visualized in pictograph by making groups

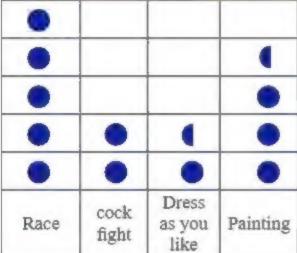




Wow! Pictograph helps us to express and compare large numbers.



Can we show the pictograph in other ways?



The table on the right shows the memo of the sales of various vegetables in a vegetables store. Let us express it

through pictograph.

- (1) How many students are equal to ?
- (2) Which competition has the largest number of students participating in?
- (3) Which competition has the least number of students participating in?

Vegetables	Price
Eggplant	35
Cauliflower	20
Lemon	60
Cucumber	50
Gourd	15

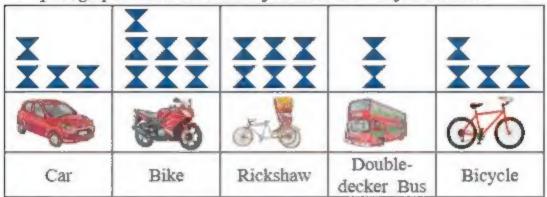
2 A pictograph of favorite flowers of students of a school has been given below. Let us discuss with the classmates and answer the following questions.

Rose	X	X	X	X	X
Jesmine	X	X	X		
China rose	X	X			
kadam	X	>			

Each = 20 students

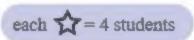
- flower is liked by the least number of students.
- (2) students like jasmine.
- (3) Total number of students is

2 The students of grade 3 went on a trip to a zoo. Let us start to draw a pictograph of the vehicles they saw on their way to the zoo.



- (1) Students saw 8 cars. Each X= vehicle?
- (2) They saw more bikes than rickshaws.
- (3) They saw 6 double-decker buses. They will draw more in the pictograph
- (4) Number of bicycles was less than bike.
- 3 A pictograph of favorite fish of few students has been given below. Let us answer the following questions.

Hilsa	ዕ
Prawn	ተ
cat fish	☆☆
rohu	ሰ

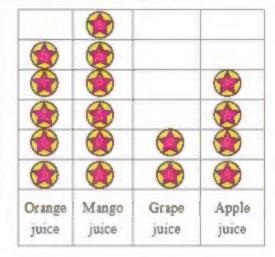


- (1) Hilsa is the favorite fish of 9 male students. How many female students like Hilsa fish?
- (2) 12 female students like prawn. How many male students like prawn fish?
- (3) 4 male students like salmon carp. How many more female students like salmon than male students?

Let us do

- Let us make a list of different plants around the house and make a table and express it through pictograph.
- Let us compare the two diagrams below. Can we call both of two are pictograph? Let us discuss with classmates and give opinion.

Orange juice	
Mango juice	
Grape juice	
Apple juice	



each = 5 students

The pictograph of books of different types of a library is given below.

Bengali	
Mathematics	
English	
Social science	

- (a) The largest number of books is and and .
- (b) The number of books is 30.
- (c) The total number of books is —

Academic Year 2025, Class Three-Math

If you want to be great, start by being humble.

Call 333 (Call Centre) for information, services and remedy of social problems.

Call 109 (Toll free, 24 hours) National Help Centre to redress and prevent violence against women and children.



National Curriculum and Textbook Board, Bangladesh